

APPROVED

Jamie Greenlee

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**Detention Analysis
S.A.K. CONSTRUCTION
HEADQUARTERS PARKING ADDITION
O'FALLON, MISSOURI**
(Musler Engineering Project No. 11-1230HQ)

Prepared For:

S.A.K. CONSTRUCTION
864 Hoff Road
O'Fallon, Missouri 63366

Performed by:

Musler Engineering Company
32 Portwest Court
Saint Charles, MO 63303-5985

September 2016



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WATER QUALITY & DETENTION ANALYSIS
S.A.K. CONSTRUCTION
HEADQUARTERS PARKING ADDITION

INTRODUCTION

At the request of S.A.K. Construction, we have conducted an analysis for detention and water quality for a dry detention basin.

SITE AND PROJECT DESCRIPTION

The S.A.K. Construction Headquarters Parking Lot Addition is located at 864 Hoff Road in the City of O'Fallon, Saint Charles County, Missouri. The site is located on the east side of Hoff Road, approximately 0.4 miles north of the intersection with West Terra Lane. The site area for the S.A.K. Construction Storage Yard, including the future development is approximately 7.73 acres. The drainage area of the proposed improvement enters an un-named creek to the west of the site and is tributary to Peruque Creek.

METHODOLOGY AND DETENTION ANALYSIS

The storm run-off for the 2 year, 15 year, 25 year and 100 year – 24 hour storm events was determined using the SCS Method. The existing conditions were calculated using the original detention report performed by David Mason & Associates supplied by the City of O'Fallon. The detention was analyzed using "Hydraflow Hydrographs 2007" (see Appendix). The time of concentration from the water quality analysis was used for this analysis also.

The project drains to the Peruque Creek watershed through an unnamed tributary

The table below shows the results for the basin.

HYDROLOGIC AND DETENTION SUMMARY TABLE

Storm Event	Pr Flow to Basin	Max Allow. Outflow	Total Outflow
2 yr.-20 min.	18.60 cfs	5.77 cfs	4.87 cfs
15 yr.-20 min.	42.44 cfs	23.39 cfs	22.00 cfs
25 yr.-20 min.	44.25 cfs	24.75 cfs	23.07 cfs
100 yr.-20 min.	58.72 cfs	35.79 cfs	35.01 cfs

Top of dam = 568.38

100yr. high water = 566.32

Freeboard = 2.06 feet

100yr. high water with low flow blocked = 566.62

Freeboard with low flow blocked = 1.76 feet

APPENDIX

Hydrograph Return Period Recap

Hydraflow Hydrographs by Intellecive v9.2

Hyd. No.	Hydrograph type (origin)	Inflow Hyd(s)	Peak Outflow (cfs)								Hydrograph description
			1-Yr	2-Yr	3-Yr	5-Yr	10-Yr	25-Yr	50-Yr	100-Yr	
1	SCS Runoff	-----	-----	5.768	-----	-----	23.39	24.75	-----	35.79	Existing to NW (Mason Report)
2	SCS Runoff	-----	-----	16.54	-----	-----	38.96	40.54	-----	53.10	Proposed (Mason Report)
3	SCS Runoff	-----	-----	16.60	-----	-----	42.44	44.25	-----	56.72	Proposed to Revise Basin
4	Reservoir	3	-----	4.867	-----	-----	22.00	23.07	-----	35.01	Pr thru Rev Basin
5	Reservoir	3	-----	5.415	-----	-----	25.47	27.58	-----	43.05	Pr. thr Rev Basin LFB

Hydrograph Summary Report

Hydraflow Hydrographs by Intelisolve v9.2

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph description
1	SCS Runoff	5.758	3	723	16,293	---	-----	-----	Existing to NW (Mason Report)
2	SCS Runoff	16.54	3	717	39,181	---	-----	-----	Proposed (Mason Report)
3	SCS Runoff	18.80	3	717	38,077	---	-----	-----	Proposed to Revise Basin
4	Reservoir	4.867	3	728	38,080	3	563.97	11,510	Pr thru Rev Basin
11-1230-HQ-SCS-09-09-16.gpw					Return Period: 2 Year			Friday, Sep 9, 2016	

Hydrograph Report

Hydraflow Hydrographs by Intelisolve v9.2

Friday, Sep 9, 2016

Hyd. No. 1

Existing to NW (Mason Report)

Hydrograph type	= SCS Runoff	Peak discharge	= 5.768 cfs
Storm frequency	= 2 yrs	Time to peak	= 723 min
Time interval	= 3 min	Hyd. volume	= 97,684 cuft
Drainage area	= 5.870 ac	Curve number	= 79
Basin Slope	= 2.7 %	Hydraulic length	= 808 ft
Tc method	= USER	Time of conc. (Tc)	= 14.0 min
Total precip.	= 2.39 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

Hydrograph Discharge Table

(Printed values >= 1.00% of Qp.)

Time (min)	Outflow (cfs)	Time (min)	Outflow (cfs)	Time (min)	Outflow (cfs)	Time (min)	Outflow (cfs)
681	0.064	792	0.472	903	0.257	1014	0.183
684	0.078	795	0.460	906	0.255	1017	0.182
687	0.093	798	0.449	909	0.252	1020	0.181
690	0.110	801	0.439	912	0.249	1023	0.180
693	0.136	804	0.429	915	0.247	1026	0.179
696	0.190	807	0.419	918	0.244	1029	0.178
699	0.300	810	0.409	921	0.241	1032	0.177
702	0.494	813	0.399	924	0.239	1035	0.176
705	0.792	816	0.389	927	0.236	1038	0.175
708	1.253	819	0.380	930	0.233	1041	0.175
711	1.994	822	0.372	933	0.231	1044	0.174
714	3.167	825	0.364	936	0.228	1047	0.173
717	4.607	828	0.356	939	0.225	1050	0.172
720	5.666	831	0.348	942	0.222	1053	0.171
723	5.768 <<	834	0.341	945	0.220	1056	0.170
726	4.938	837	0.333	948	0.217	1059	0.169
729	3.795	840	0.326	951	0.214	1062	0.168
732	2.730	843	0.319	954	0.211	1065	0.167
735	1.857	846	0.312	957	0.209	1068	0.166
738	1.324	849	0.306	960	0.206	1071	0.165
741	1.130	852	0.302	963	0.203	1074	0.164
744	1.057	855	0.298	966	0.201	1077	0.163
747	0.982	858	0.295	969	0.198	1080	0.162
750	0.906	861	0.293	972	0.197	1083	0.161
753	0.830	864	0.290	975	0.195	1086	0.160
756	0.761	867	0.288	978	0.194	1089	0.159
759	0.705	870	0.285	981	0.193	1092	0.158
762	0.663	873	0.283	984	0.192	1095	0.157
765	0.631	876	0.280	987	0.192	1098	0.156
768	0.608	879	0.278	990	0.191	1101	0.155
771	0.588	882	0.275	993	0.190	1104	0.154
774	0.571	885	0.273	996	0.189	1107	0.153
777	0.553	888	0.270	999	0.188	1110	0.152
780	0.535	891	0.268	1002	0.187	1113	0.151
783	0.517	894	0.265	1005	0.186	1116	0.150
786	0.500	897	0.263	1008	0.185	1119	0.149
789	0.485	900	0.260	1011	0.184	1122	0.148

Continues on next page...

Hydrograph Discharge Table

Time -- Outflow (min cfs)	Time -- Outflow (min cfs)
1125	0.147
1128	0.145
1131	0.144
1134	0.143
1137	0.142
1140	0.141
1143	0.140
1146	0.139
1149	0.138
1152	0.137
1155	0.136
1158	0.135
1161	0.134
1164	0.133
1167	0.132
1170	0.131
1173	0.130
1176	0.129
1179	0.128
1182	0.127
1185	0.126
1188	0.125
1191	0.123
1194	0.122
1197	0.121
1200	0.120
1203	0.119
1206	0.118
1209	0.118
1212	0.117
1215	0.117
1218	0.116
1221	0.116
1224	0.116
1227	0.116
1230	0.116
1233	0.115
1236	0.115
1239	0.115
1242	0.115
1245	0.115
1248	0.115
1251	0.114
1254	0.114
1257	0.114
1260	0.114
1263	0.114
1266	0.113
1269	0.113
1272	0.113
1275	0.113
1278	0.113
1281	0.113
1284	0.112
1287	0.112
1290	0.112
1293	0.112
1296	0.112
1299	0.111
1302	0.111
1305	0.111
1308	0.111
1311	0.111
1314	0.110
1317	0.110
1320	0.110
1323	0.110
1326	0.110
1329	0.110
1332	0.109
1335	0.109
1338	0.109
1341	0.109
1344	0.109
1347	0.108
1350	0.108
1353	0.108
1356	0.108
1359	0.108
1362	0.107
1365	0.107
1368	0.107
1371	0.107
1374	0.107
1377	0.106
1380	0.106
1383	0.106
1386	0.106
1389	0.106
1392	0.105
1395	0.105
1398	0.105
1401	0.105
1404	0.105
1407	0.105
1410	0.104
1413	0.104
1416	0.104
1419	0.104
1422	0.104
1425	0.103
1428	0.103
1431	0.103
1434	0.103
1437	0.103
1440	0.102
1443	0.094
1446	0.077

...End

Hydrograph Report

Hydraflow Hydrographs by Intelisolve v9.2

Friday, Sep 9, 2016

Hyd. No. 2

Proposed (Mason Report)

Hydrograph type	= SCS Runoff	Peak discharge	= 16.54 cfs
Storm frequency	= 2 yrs	Time to peak	= 717 min
Time interval	= 3 min	Hyd. volume	= 135,157 cuft
Drainage area	= 6.200 ac	Curve number	= 95
Basin Slope	= 2.7 %	Hydraulic length	= 808 ft
Tc method	= USER	Time of conc. (Tc)	= 6.0 min
Total precip.	= 2.39 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

Hydrograph Discharge Table

Printed values == 1.00% of Op 1

Time -- Outflow (min) cfs)	Time -- Outflow (min) cfs)	Time -- Outflow (min) cfs)	Time -- Outflow (min) cfs)
504 0.166	615 0.389	726 5.787	837 0.530
507 0.171	618 0.402	729 3.100	840 0.517
510 0.176	621 0.416	732 2.311	843 0.505
513 0.181	624 0.430	735 2.161	846 0.495
516 0.186	627 0.444	738 2.014	849 0.488
519 0.191	630 0.458	741 1.867	852 0.483
522 0.197	633 0.473	744 1.719	855 0.478
525 0.202	636 0.490	747 1.570	858 0.474
528 0.207	639 0.510	750 1.421	861 0.469
531 0.213	642 0.532	753 1.284	864 0.465
534 0.218	645 0.555	756 1.181	867 0.460
537 0.224	648 0.578	759 1.116	870 0.456
540 0.230	651 0.602	762 1.074	873 0.451
543 0.235	654 0.626	765 1.041	876 0.446
546 0.239	657 0.650	768 1.007	879 0.442
549 0.242	660 0.674	771 0.973	882 0.437
552 0.244	663 0.701	774 0.939	885 0.433
555 0.246	666 0.738	777 0.905	888 0.428
558 0.248	669 0.784	780 0.871	891 0.423
561 0.250	672 0.837	783 0.838	894 0.419
564 0.252	675 0.892	786 0.811	897 0.414
567 0.254	678 0.948	789 0.788	900 0.409
570 0.256	681 1.006	792 0.769	903 0.405
573 0.258	684 1.064	795 0.750	906 0.400
576 0.263	687 1.123	798 0.732	909 0.396
579 0.269	690 1.183	801 0.714	912 0.391
582 0.277	693 1.367	804 0.695	915 0.386
585 0.286	696 1.930	807 0.677	918 0.382
588 0.295	699 2.930	810 0.659	921 0.377
591 0.303	702 4.225	813 0.641	924 0.372
594 0.312	705 5.664	816 0.624	927 0.368
597 0.321	708 7.423	819 0.610	930 0.363
600 0.330	711 10.04	822 0.596	933 0.359
603 0.340	714 13.65	825 0.583	936 0.354
606 0.351	717 16.54 <<	828 0.570	939 0.349
609 0.363	720 15.49	831 0.557	942 0.345
612 0.378	723 10.65	834 0.544	945 0.340

Continues on next page...

Hydrograph Discharge Table

Time -- Outflow (min cfs)	Time -- Outflow (min cfs)	Time -- Outflow (min cfs)			
948	0.335	1110	0.228	1272	0.168
951	0.331	1113	0.227	1275	0.168
954	0.326	1116	0.225	1278	0.167
957	0.321	1119	0.223	1281	0.167
960	0.317	1122	0.222	1284	0.167
963	0.312	1125	0.220	1287	0.166
966	0.309	1128	0.218	1290	0.166
969	0.306	1131	0.217	1293	0.166
972	0.305	1134	0.215		
975	0.303	1137	0.213	...End	
978	0.301	1140	0.212		
981	0.300	1143	0.210		
984	0.298	1146	0.208		
987	0.296	1149	0.207		
990	0.295	1152	0.205		
993	0.293	1155	0.203		
996	0.291	1158	0.202		
999	0.290	1161	0.200		
1002	0.288	1164	0.198		
1005	0.286	1167	0.197		
1008	0.285	1170	0.195		
1011	0.283	1173	0.193		
1014	0.282	1176	0.192		
1017	0.280	1179	0.190		
1020	0.278	1182	0.188		
1023	0.277	1185	0.187		
1026	0.275	1188	0.185		
1029	0.273	1191	0.183		
1032	0.272	1194	0.182		
1035	0.270	1197	0.180		
1038	0.268	1200	0.178		
1041	0.267	1203	0.177		
1044	0.265	1206	0.176		
1047	0.263	1209	0.175		
1050	0.262	1212	0.174		
1053	0.260	1215	0.174		
1056	0.258	1218	0.174		
1059	0.257	1221	0.173		
1062	0.255	1224	0.173		
1065	0.253	1227	0.173		
1068	0.252	1230	0.172		
1071	0.250	1233	0.172		
1074	0.248	1236	0.172		
1077	0.247	1239	0.171		
1080	0.245	1242	0.171		
1083	0.243	1245	0.171		
1086	0.242	1248	0.170		
1089	0.240	1251	0.170		
1092	0.238	1254	0.170		
1095	0.237	1257	0.170		
1098	0.235	1260	0.169		
1101	0.233	1263	0.169		
1104	0.232	1266	0.169		
1107	0.230	1269	0.168		

Hydrograph Report

Hydraflow Hydrographs by Intellisolve v9.2

Friday, Sep 9, 2016

Hyd. No. 3

Proposed to Revise Basin

Hydrograph type	= SCS Runoff	Peak discharge	= 16.60 cfs
Storm frequency	= 2 yrs	Time to peak	= 717 min
Time interval	= 3 min	Hyd. volume	= 144,854 cuft
Drainage area	= 7.030 ac	Curve number	= 92*
Basin Slope	= 2.7 %	Hydraulic length	= 808 ft
Tc method	= USER	Time of conc. (Tc)	= 6.0 min
Total precip.	= 2.39 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

* Composite (Area/CN) = [(1.210 x 74) + (1.430 x 69) + (4.390 x 86)] / 7.030

(Printed values >= 1.00% of Cp)

Hydrograph Discharge Table

Time -- Outflow	Time -- Outflow	Time -- Outflow	Time -- Outflow
(min cfs)	(min cfs)	(min cfs)	(min cfs)
558 0.168	669 0.655	780 0.921	891 0.452
561 0.171	672 0.703	783 0.887	894 0.447
564 0.173	675 0.754	786 0.858	897 0.442
567 0.175	678 0.806	789 0.834	900 0.437
570 0.178	681 0.860	792 0.814	903 0.432
573 0.180	684 0.915	795 0.795	906 0.428
576 0.185	687 0.972	798 0.776	909 0.423
579 0.190	690 1.031	801 0.757	912 0.418
582 0.197	693 1.200	804 0.737	915 0.413
585 0.204	696 1.711	807 0.718	918 0.408
588 0.212	699 2.629	810 0.699	921 0.403
591 0.219	702 3.843	813 0.680	924 0.398
594 0.227	705 5.239	816 0.663	927 0.393
597 0.235	708 6.999	819 0.648	930 0.388
600 0.243	711 9.672	822 0.633	933 0.383
603 0.251	714 13.45	825 0.620	936 0.379
606 0.261	717 16.60 <<	828 0.606	939 0.374
609 0.271	720 15.75	831 0.592	942 0.369
612 0.282	723 10.94	834 0.578	945 0.364
615 0.294	726 5.989	837 0.564	948 0.359
618 0.306	729 3.228	840 0.550	951 0.354
621 0.318	732 2.413	843 0.537	954 0.349
624 0.330	735 2.260	846 0.527	957 0.344
627 0.343	738 2.109	849 0.520	960 0.339
630 0.356	741 1.957	852 0.514	963 0.334
633 0.369	744 1.803	855 0.510	966 0.331
636 0.385	747 1.649	858 0.505	969 0.328
639 0.403	750 1.494	861 0.500	972 0.326
642 0.423	753 1.350	864 0.495	975 0.325
645 0.444	756 1.243	867 0.490	978 0.323
648 0.465	759 1.176	870 0.486	981 0.321
651 0.486	762 1.133	873 0.481	984 0.319
654 0.508	765 1.098	876 0.476	987 0.318
657 0.531	768 1.062	879 0.471	990 0.315
660 0.553	771 1.027	882 0.466	993 0.314
663 0.579	774 0.992	885 0.462	996 0.312
666 0.613	777 0.958	888 0.457	999 0.311

Continues on next page...

Hydrograph Discharge Table

Time (min)	Outflow (cfs)	Time (min)	Outflow (cfs)	Time (min)	Outflow (cfs)
1002	0.309	1164	0.214	1326	0.175
1005	0.307	1167	0.212	1329	0.174
1008	0.305	1170	0.210	1332	0.174
1011	0.304	1173	0.208	1335	0.174
1014	0.302	1176	0.206	1338	0.173
1017	0.300	1179	0.205	1341	0.173
1020	0.299	1182	0.203	1344	0.173
1023	0.297	1185	0.201	1347	0.172
1026	0.295	1188	0.199	1350	0.172
1029	0.293	1191	0.197	1353	0.172
1032	0.292	1194	0.196	1356	0.171
1035	0.290	1197	0.194	1359	0.171
1038	0.288	1200	0.192	1362	0.171
1041	0.286	1203	0.190	1365	0.170
1044	0.284	1206	0.189	1368	0.170
1047	0.283	1209	0.188	1371	0.170
1050	0.281	1212	0.188	1374	0.169
1053	0.279	1215	0.188	1377	0.169
1056	0.277	1218	0.187	1380	0.169
1059	0.276	1221	0.187	1383	0.168
1062	0.274	1224	0.187	1386	0.168
1065	0.272	1227	0.186	1389	0.167
1068	0.270	1230	0.186	1392	0.167
1071	0.269	1233	0.186	1395	0.167
1074	0.267	1236	0.185	1398	0.166
1077	0.265	1239	0.185	1401	0.166
1080	0.263	1242	0.185		
1083	0.262	1245	0.184	...End	
1086	0.260	1248	0.184		
1089	0.258	1251	0.184		
1092	0.256	1254	0.183		
1095	0.255	1257	0.183		
1098	0.253	1260	0.183		
1101	0.251	1263	0.182		
1104	0.249	1266	0.182		
1107	0.247	1269	0.181		
1110	0.246	1272	0.181		
1113	0.244	1275	0.181		
1116	0.242	1278	0.180		
1119	0.240	1281	0.180		
1122	0.239	1284	0.180		
1125	0.237	1287	0.179		
1128	0.235	1290	0.179		
1131	0.233	1293	0.179		
1134	0.231	1296	0.178		
1137	0.230	1299	0.178		
1140	0.228	1302	0.178		
1143	0.226	1305	0.177		
1146	0.224	1308	0.177		
1149	0.223	1311	0.177		
1152	0.221	1314	0.176		
1155	0.219	1317	0.176		
1158	0.217	1320	0.176		
1161	0.215	1323	0.175		

Hydrograph Report

Hydraflow Hydrographs by Intellisolve v9.2

Friday, Sep 9, 2016

Hyd. No. 4

Pr thru Rev Basin

Hydrograph type	= Reservoir	Peak discharge	= 4.867 cfs
Storm frequency	= 2 yrs	Time to peak	= 726 min
Time interval	= 3 min	Hyd. volume	= 144,860 cuft
Inflow hyd. No.	= 3 - Proposed to Revise Basin	Reservoir name	= Revised Basin
Max. Elevation	= 563.97 ft	Max. Storage	= 11,510 cuft

Storage indication method used

(Printed values are 1.00% of Dp)

Hydrograph Discharge Table

Time (min)	Inflow cfs	Elevation ft	Civ A cfs	Civ B cfs	Civ C cfs	PfRsr cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	Outflow cfs
441	0.050	561.93	0.053	0.050	----	----	----	----	----	----	----	0.050
444	0.051	561.94	0.054	0.051	----	----	----	----	----	----	----	0.051
447	0.053	561.94	0.055	0.053	----	----	----	----	----	----	----	0.053
450	0.055	561.94	0.057	0.055	----	----	----	----	----	----	----	0.055
453	0.057	561.94	0.058	0.056	----	----	----	----	----	----	----	0.056
456	0.058	561.94	0.059	0.058	----	----	----	----	----	----	----	0.058
459	0.060	561.95	0.060	0.060	----	----	----	----	----	----	----	0.060
462	0.062	561.95	0.062	0.062	----	----	----	----	----	----	----	0.062
465	0.064	561.95	0.064	0.063	----	----	----	----	----	----	----	0.063
468	0.065	561.95	0.066	0.065	----	----	----	----	----	----	----	0.065
471	0.067	561.95	0.069	0.067	----	----	----	----	----	----	----	0.067
474	0.069	561.95	0.071	0.069	----	----	----	----	----	----	----	0.069
477	0.071	561.96	0.073	0.070	----	----	----	----	----	----	----	0.070
480	0.072	561.96	0.075	0.072	----	----	----	----	----	----	----	0.072
483	0.074	561.96	0.078	0.074	----	----	----	----	----	----	----	0.074
486	0.077	561.96	0.081	0.076	----	----	----	----	----	----	----	0.076
489	0.080	561.97	0.084	0.079	----	----	----	----	----	----	----	0.079
492	0.083	561.97	0.086	0.083	----	----	----	----	----	----	----	0.083
495	0.086	561.97	0.089	0.086	----	----	----	----	----	----	----	0.086
498	0.090	561.97	0.092	0.089	----	----	----	----	----	----	----	0.090
501	0.093	561.98	0.094	0.093	----	----	----	----	----	----	----	0.093
504	0.097	561.98	0.097	0.097	----	----	----	----	----	----	----	0.097
507	0.101	561.98	0.102	0.101	----	----	----	----	----	----	----	0.101
510	0.105	561.99	0.109	0.104	----	----	----	----	----	----	----	0.104
513	0.109	561.99	0.115	0.108	----	----	----	----	----	----	----	0.108
516	0.113	561.99	0.122	0.112	----	----	----	----	----	----	----	0.112
519	0.117	562.00	0.129	0.117	----	----	----	----	----	----	----	0.117
522	0.121	562.00	0.132	0.118	----	----	----	----	----	----	----	0.118
525	0.126	562.00	0.133	0.119	----	----	----	----	----	----	----	0.119
528	0.130	562.00	0.133	0.120	----	----	----	----	----	----	----	0.120
531	0.134	562.00	0.135	0.121	----	----	----	----	----	----	----	0.121
534	0.139	562.00	0.136	0.122	----	----	----	----	----	----	----	0.122
537	0.144	562.00	0.138	0.124	----	----	----	----	----	----	----	0.124
540	0.149	562.00	0.140	0.126	----	----	----	----	----	----	----	0.126
543	0.153	562.01	0.142	0.129	----	----	----	----	----	----	----	0.129
546	0.157	562.01	0.144	0.131	----	----	----	----	----	----	----	0.131
549	0.160	562.01	0.147	0.134	----	----	----	----	----	----	----	0.134
552	0.163	562.01	0.150	0.136	----	----	----	----	----	----	----	0.136
555	0.166	562.01	0.152	0.139	----	----	----	----	----	----	----	0.139
558	0.168	562.01	0.155	0.141	----	----	----	----	----	----	----	0.142
561	0.171	562.02	0.157	0.144	----	----	----	----	----	----	----	0.144

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Hydrograph Discharge Table

Time (min)	Inflow cfs	Elevation ft	Civ A cfs	Civ B cfs	Civ C cfs	PfRsr cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	Outflow cfs
564	0.173	562.02	0.160	0.147	----	----	----	----	----	----	----	0.147
567	0.175	562.02	0.162	0.149	----	----	----	----	----	----	----	0.149
570	0.178	562.02	0.165	0.152	----	----	----	----	----	----	----	0.152
573	0.180	562.02	0.167	0.154	----	----	----	----	----	----	----	0.154
576	0.185	562.02	0.170	0.157	----	----	----	----	----	----	----	0.157
579	0.190	562.03	0.173	0.160	----	----	----	----	----	----	----	0.160
582	0.197	562.03	0.176	0.163	----	----	----	----	----	----	----	0.163
585	0.204	562.03	0.179	0.167	----	----	----	----	----	----	----	0.167
588	0.212	562.03	0.183	0.170	----	----	----	----	----	----	----	0.170
591	0.219	562.03	0.187	0.175	----	----	----	----	----	----	----	0.175
594	0.227	562.04	0.191	0.179	----	----	----	----	----	----	----	0.179
597	0.235	562.04	0.196	0.184	----	----	----	----	----	----	----	0.184
600	0.243	562.04	0.201	0.189	----	----	----	----	----	----	----	0.189
603	0.251	562.05	0.207	0.195	----	----	----	----	----	----	----	0.195
606	0.261	562.05	0.212	0.200	----	----	----	----	----	----	----	0.200
609	0.271	562.05	0.218	0.206	----	----	----	----	----	----	----	0.206
612	0.282	562.06	0.225	0.213	----	----	----	----	----	----	----	0.213
615	0.294	562.06	0.231	0.220	----	----	----	----	----	----	----	0.220
618	0.306	562.07	0.239	0.228	----	----	----	----	----	----	----	0.227
621	0.318	562.07	0.246	0.235	----	----	----	----	----	----	----	0.235
624	0.330	562.08	0.255	0.244	----	----	----	----	----	----	----	0.244
627	0.343	562.08	0.263	0.252	----	----	----	----	----	----	----	0.252
630	0.356	562.09	0.272	0.261	----	----	----	----	----	----	----	0.261
633	0.369	562.09	0.281	0.271	----	----	----	----	----	----	----	0.271
636	0.385	562.10	0.291	0.281	----	----	----	----	----	----	----	0.281
639	0.403	562.11	0.305	0.295	----	----	----	----	----	----	----	0.295
642	0.423	562.11	0.319	0.310	----	----	----	----	----	----	----	0.310
645	0.444	562.12	0.334	0.326	----	----	----	----	----	----	----	0.326
648	0.465	562.13	0.350	0.342	----	----	----	----	----	----	----	0.342
651	0.486	562.14	0.366	0.359	----	----	----	----	----	----	----	0.359
654	0.508	562.14	0.383	0.377	----	----	----	----	----	----	----	0.377
657	0.531	562.15	0.400	0.395	----	----	----	----	----	----	----	0.395
660	0.553	562.16	0.418	0.414	----	----	----	----	----	----	----	0.414
663	0.579	562.17	0.436	0.433	----	----	----	----	----	----	----	0.433
666	0.613	562.18	0.456	0.454	----	----	----	----	----	----	----	0.454
669	0.655	562.19	0.478	0.477	----	----	----	----	----	----	----	0.477
672	0.703	562.20	0.503	0.503	----	----	----	----	----	----	----	0.503
675	0.754	562.21	0.540	0.536	----	----	----	----	----	----	----	0.536
678	0.806	562.23	0.581	0.573	----	----	----	----	----	----	----	0.573
681	0.860	562.24	0.624	0.613	----	----	----	----	----	----	----	0.612
684	0.915	562.25	0.671	0.654	----	----	----	----	----	----	----	0.654
687	0.972	562.27	0.719	0.698	----	----	----	----	----	----	----	0.698
690	1.031	562.29	0.770	0.744	----	----	----	----	----	----	----	0.744
693	1.200	562.31	0.834	0.805	----	----	----	----	----	----	----	0.805
696	1.711	562.34	0.950	0.923	----	----	----	----	----	----	----	0.923
699	2.629	562.41	1.181	1.150	----	----	----	----	----	----	----	1.150
702	3.843	562.53	1.616	1.555	----	----	----	----	----	----	----	1.555
705	5.239	562.69	2.144	2.143	----	----	----	----	----	----	----	2.143
708	6.999	562.81	2.945	2.900	----	----	----	----	----	----	----	2.900
711	9.672	563.08	3.305	3.272	----	----	----	----	----	----	----	3.272
714	13.45	563.24	3.891	3.591	----	----	----	----	----	----	----	3.591
717	18.60 <<	563.47	4.038	4.036	----	----	----	----	----	----	----	4.036
720	15.75	563.71	4.585	4.450	----	----	----	----	----	----	----	4.450
723	10.94	563.89	4.879	4.748	----	----	----	----	----	----	----	4.748

Continues on next page.

Hydrograph Discharge Table

Time (min)	Inflow cfs	Elevation ft	Civ A cfs	Civ B cfs	Civ C cfs	PfRsr cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	Outflow cfs
726	5.989	563.96 <<	5.004	4.857	----	----	----	----	----	----	----	4.867 <<
729	3.228	563.96	4.996	4.859	----	----	----	----	----	----	----	4.859
732	2.413	563.92	4.927	4.794	----	----	----	----	----	----	----	4.794
735	2.280	563.87	4.844	4.714	----	----	----	----	----	----	----	4.714
738	2.109	563.82	4.760	4.631	----	----	----	----	----	----	----	4.631
741	1.957	563.77	4.674	4.543	----	----	----	----	----	----	----	4.543
744	1.803	563.71	4.587	4.452	----	----	----	----	----	----	----	4.452
747	1.649	563.66	4.498	4.366	----	----	----	----	----	----	----	4.366
750	1.494	563.60	4.408	4.257	----	----	----	----	----	----	----	4.257
753	1.350	563.55	4.232	4.163	----	----	----	----	----	----	----	4.163
756	1.243	563.49	4.069	4.068	----	----	----	----	----	----	----	4.068
759	1.176	563.43	3.981	3.975	----	----	----	----	----	----	----	3.975
762	1.133	563.37	3.894	3.873	----	----	----	----	----	----	----	3.873
765	1.098	563.32	3.811	3.761	----	----	----	----	----	----	----	3.761
768	1.062	563.27	3.730	3.648	----	----	----	----	----	----	----	3.648
771	1.027	563.22	3.653	3.535	----	----	----	----	----	----	----	3.535
774	0.992	563.16	3.528	3.442	----	----	----	----	----	----	----	3.442
777	0.956	563.12	3.386	3.358	----	----	----	----	----	----	----	3.358
780	0.921	563.07	3.294	3.251	----	----	----	----	----	----	----	3.252
783	0.887	563.02	3.228	3.137	----	----	----	----	----	----	----	3.137
786	0.858	562.93	3.009	2.947	----	----	----	----	----	----	----	2.947
789	0.834	562.81	2.701	2.589	----	----	----	----	----	----	----	2.589
792	0.814	562.72	2.266	2.243	----	----	----	----	----	----	----	2.243
795	0.795	562.64	1.976	1.973	----	----	----	----	----	----	----	1.973
798	0.776	562.57	1.766	1.741	----	----	----	----	----	----	----	1.741
801	0.757	562.52	1.599	1.535	----	----	----	----	----	----	----	1.535
804	0.737	562.48	1.445	1.377	----	----	----	----	----	----	----	1.377
807	0.718	562.44	1.302	1.254	----	----	----	----	----	----	----	1.255
810	0.699	562.41	1.182	1.151	----	----	----	----	----	----	----	1.151
813	0.680	562.39	1.090	1.066	----	----	----	----	----	----	----	1.066
816	0.663	562.37	1.020	0.994	----	----	----	----	----	----	----	0.994
819	0.648	562.35	0.960	0.933	----	----	----	----	----	----	----	0.933
822	0.633	562.33	0.908	0.880	----	----	----	----	----	----	----	0.880
825	0.620	562.32	0.863	0.834	----	----	----	----	----	----	----	0.834
828	0.606	562.31	0.824	0.794	----	----	----	----	----	----	----	0.794
831	0.592	562.29	0.790	0.762	----	----	----	----	----	----	----	0.762
834	0.578	562.28	0.760	0.735	----	----	----	----	----	----	----	0.735
837	0.564	562.28	0.733	0.710	----	----	----	----	----	----	----	0.710
840	0.550	562.27	0.707	0.687	----	----	----	----	----	----	----	0.687
843	0.537	562.26	0.683	0.665	----	----	----	----	----	----	----	0.665
846	0.527	562.25	0.661	0.645	----	----	----	----	----	----	----	0.645
849	0.520	562.24	0.640	0.627	----	----	----	----	----	----	----	0.627
852	0.514	562.24	0.622	0.610	----	----	----	----	----	----	----	0.610
855	0.510	562.23	0.605	0.595	----	----	----	----	----	----	----	0.595
858	0.505	562.23	0.591	0.582	----	----	----	----	----	----	----	0.582
861	0.500	562.22	0.577	0.570	----	----	----	----	----	----	----	0.570
864	0.495	562.22	0.565	0.559	----	----	----	----	----	----	----	0.559
867	0.490	562.22	0.554	0.549	----	----	----	----	----	----	----	0.549
870	0.486	562.21	0.544	0.540	----	----	----	----	----	----	----	0.540
873	0.481	562.21	0.534	0.531	----	----	----	----	----	----	----	0.531
876	0.476	562.21	0.525	0.523	----	----	----	----	----	----	----	0.523
879	0.471	562.20	0.517	0.516	----	----	----	----	----	----	----	0.516
882	0.466	562.20	0.509	0.509	----	----	----	----	----	----	----	0.509
885	0.462	562.20	0.503	0.502	----	----	----	----	----	----	----	0.502

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Hydrograph Discharge Table

Time (min)	Inflow cfs	Elevation ft	Civ A cfs	Civ B cfs	Civ C cfs	PfRsr cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	Outflow cfs
888	0.457	562.20	0.497	0.497	----	----	----	----	----	----	----	0.497
891	0.452	562.19	0.492	0.491	----	----	----	----	----	----	----	0.491
894	0.447	562.19	0.487	0.486	----	----	----	----	----	----	----	0.486
897	0.442	562.19	0.482	0.481	----	----	----	----	----	----	----	0.481
900	0.437	562.19	0.477	0.476	----	----	----	----	----	----	----	0.476
903	0.432	562.18	0.472	0.470	----	----	----	----	----	----	----	0.470
906	0.428	562.18	0.467	0.465	----	----	----	----	----	----	----	0.465
909	0.423	562.18	0.462	0.460	----	----	----	----	----	----	----	0.460
912	0.418	562.18	0.457	0.455	----	----	----	----	----	----	----	0.455
915	0.413	562.18	0.453	0.450	----	----	----	----	----	----	----	0.450
918	0.408	562.17	0.448	0.445	----	----	----	----	----	----	----	0.445
921	0.403	562.17	0.443	0.440	----	----	----	----	----	----	----	0.440
924	0.398	562.17	0.438	0.435	----	----	----	----	----	----	----	0.435
927	0.393	562.17	0.433	0.430	----	----	----	----	----	----	----	0.430
930	0.388	562.16	0.429	0.425	----	----	----	----	----	----	----	0.425
933	0.383	562.16	0.424	0.420	----	----	----	----	----	----	----	0.420
936	0.379	562.16	0.419	0.415	----	----	----	----	----	----	----	0.415
939	0.374	562.16	0.414	0.410	----	----	----	----	----	----	----	0.410
942	0.369	562.16	0.410	0.405	----	----	----	----	----	----	----	0.405
945	0.364	562.15	0.405	0.400	----	----	----	----	----	----	----	0.400
948	0.359	562.15	0.400	0.395	----	----	----	----	----	----	----	0.395
951	0.354	562.15	0.395	0.390	----	----	----	----	----	----	----	0.390
954	0.349	562.15	0.391	0.385	----	----	----	----	----	----	----	0.385
957	0.344	562.14	0.386	0.380	----	----	----	----	----	----	----	0.380
960	0.339	562.14	0.381	0.375	----	----	----	----	----	----	----	0.375
963	0.334	562.14	0.377	0.371	----	----	----	----	----	----	----	0.371
966	0.331	562.14	0.372	0.366	----	----	----	----	----	----	----	0.366
969	0.328	562.14	0.368	0.361	----	----	----	----	----	----	----	0.361
972	0.326	562.13	0.364	0.357	----	----	----	----	----	----	----	0.357
975	0.325	562.13	0.360	0.353	----	----	----	----	----	----	----	0.353
978	0.323	562.13	0.356	0.349	----	----	----	----	----	----	----	0.349
981	0.321	562.13	0.353	0.346	----	----	----	----	----	----	----	0.346
984	0.319	562.13	0.350	0.342	----	----	----	----	----	----	----	0.342
987	0.318	562.13	0.347	0.339	----	----	----	----	----	----	----	0.339
990	0.316	562.12	0.344	0.336	----	----	----	----	----	----	----	0.336
993	0.314	562.12	0.341	0.334	----	----	----	----	----	----	----	0.334
996	0.312	562.12	0.339	0.331	----	----	----	----	----	----	----	0.331
999	0.311	562.12	0.337	0.329	----	----	----	----	----	----	----	0.329
1002	0.309	562.12	0.334	0.326	----	----	----	----	----	----	----	0.326
1005	0.307	562.12	0.332	0.324	----	----	----	----	----	----	----	0.324
1008	0.305	562.12	0.330	0.322	----	----	----	----	----	----	----	0.322
1011	0.304	562.12	0.328	0.319	----	----	----	----	----	----	----	0.320
1014	0.302	562.12	0.326	0.317	----	----	----	----	----	----	----	0.317
1017	0.300	562.12	0.324	0.315	----	----	----	----	----	----	----	0.315
1020	0.299	562.11	0.322	0.313	----	----	----	----	----	----	----	0.313
1023	0.297	562.11	0.320	0.311	----	----	----	----	----	----	----	0.311
1026	0.295	562.11	0.318	0.309	----	----	----	----	----	----	----	0.309
1029	0.293	562.11	0.316	0.307	----	----	----	----	----	----	----	0.307
1032	0.292	562.11	0.314	0.305	----	----	----	----	----	----	----	0.305
1035	0.290	562.11	0.313	0.304	----	----	----	----	----	----	----	0.304
1038	0.288	562.11	0.311	0.302	----	----	----	----	----	----	----	0.302
1041	0.286	562.11	0.309	0.300	----	----	----	----	----	----	----	0.300
1044	0.284	562.11	0.307	0.298	----	----	----	----	----	----	----	0.298
1047	0.283	562.11	0.306	0.296	----	----	----	----	----	----	----	0.296

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Hydrograph Discharge Table

Time (min)	Inflow cfs	Elevation ft	Civ A cfs	Civ B cfs	Civ C cfs	PfRer cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	Outflow cfs
1050	0.281	562.11	0.304	0.294	----	----	----	----	----	----	----	0.294
1053	0.279	562.11	0.302	0.293	----	----	----	----	----	----	----	0.293
1056	0.277	562.10	0.300	0.291	----	----	----	----	----	----	----	0.291
1059	0.276	562.10	0.299	0.289	----	----	----	----	----	----	----	0.289
1062	0.274	562.10	0.297	0.287	----	----	----	----	----	----	----	0.287
1065	0.272	562.10	0.295	0.285	----	----	----	----	----	----	----	0.285
1068	0.270	562.10	0.294	0.284	----	----	----	----	----	----	----	0.284
1071	0.269	562.10	0.292	0.282	----	----	----	----	----	----	----	0.282
1074	0.267	562.10	0.290	0.280	----	----	----	----	----	----	----	0.280
1077	0.265	562.10	0.289	0.279	----	----	----	----	----	----	----	0.279
1080	0.263	562.10	0.288	0.277	----	----	----	----	----	----	----	0.277
1083	0.262	562.10	0.286	0.276	----	----	----	----	----	----	----	0.276
1086	0.260	562.10	0.285	0.275	----	----	----	----	----	----	----	0.275
1089	0.258	562.10	0.283	0.273	----	----	----	----	----	----	----	0.273
1092	0.256	562.09	0.282	0.272	----	----	----	----	----	----	----	0.272
1095	0.255	562.09	0.280	0.270	----	----	----	----	----	----	----	0.270
1098	0.253	562.09	0.279	0.269	----	----	----	----	----	----	----	0.269
1101	0.251	562.09	0.277	0.267	----	----	----	----	----	----	----	0.267
1104	0.249	562.09	0.276	0.265	----	----	----	----	----	----	----	0.265
1107	0.247	562.09	0.274	0.264	----	----	----	----	----	----	----	0.264
1110	0.246	562.09	0.273	0.262	----	----	----	----	----	----	----	0.262
1113	0.244	562.09	0.271	0.261	----	----	----	----	----	----	----	0.261
1116	0.242	562.09	0.270	0.259	----	----	----	----	----	----	----	0.259
1119	0.240	562.09	0.268	0.257	----	----	----	----	----	----	----	0.257
1122	0.239	562.08	0.266	0.256	----	----	----	----	----	----	----	0.256
1125	0.237	562.08	0.265	0.254	----	----	----	----	----	----	----	0.254
1128	0.235	562.08	0.263	0.252	----	----	----	----	----	----	----	0.252
1131	0.233	562.08	0.261	0.251	----	----	----	----	----	----	----	0.251
1134	0.231	562.08	0.260	0.249	----	----	----	----	----	----	----	0.249
1137	0.230	562.08	0.258	0.247	----	----	----	----	----	----	----	0.247
1140	0.228	562.08	0.256	0.245	----	----	----	----	----	----	----	0.245
1143	0.226	562.08	0.255	0.244	----	----	----	----	----	----	----	0.244
1146	0.224	562.08	0.253	0.242	----	----	----	----	----	----	----	0.242
1149	0.223	562.08	0.251	0.240	----	----	----	----	----	----	----	0.240
1152	0.221	562.07	0.250	0.238	----	----	----	----	----	----	----	0.239
1155	0.219	562.07	0.248	0.237	----	----	----	----	----	----	----	0.237
1158	0.217	562.07	0.246	0.235	----	----	----	----	----	----	----	0.235
1161	0.215	562.07	0.244	0.233	----	----	----	----	----	----	----	0.233
1164	0.214	562.07	0.243	0.231	----	----	----	----	----	----	----	0.232
1167	0.212	562.07	0.241	0.230	----	----	----	----	----	----	----	0.230
1170	0.210	562.07	0.239	0.228	----	----	----	----	----	----	----	0.228
1173	0.208	562.07	0.238	0.226	----	----	----	----	----	----	----	0.226
1176	0.206	562.07	0.236	0.224	----	----	----	----	----	----	----	0.224
1179	0.205	562.06	0.234	0.223	----	----	----	----	----	----	----	0.223
1182	0.203	562.06	0.232	0.221	----	----	----	----	----	----	----	0.221
1185	0.201	562.06	0.231	0.219	----	----	----	----	----	----	----	0.219
1188	0.199	562.06	0.229	0.217	----	----	----	----	----	----	----	0.217
1191	0.197	562.06	0.227	0.216	----	----	----	----	----	----	----	0.216
1194	0.196	562.06	0.225	0.214	----	----	----	----	----	----	----	0.214
1197	0.194	562.06	0.224	0.212	----	----	----	----	----	----	----	0.212
1200	0.192	562.06	0.222	0.210	----	----	----	----	----	----	----	0.210
1203	0.190	562.06	0.220	0.209	----	----	----	----	----	----	----	0.208
1206	0.189	562.05	0.218	0.207	----	----	----	----	----	----	----	0.207
1209	0.188	562.05	0.217	0.205	----	----	----	----	----	----	----	0.205

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Hydrograph Discharge Table

Time (min)	Inflow cfs	Elevation ft	Civ A cfs	Civ B cfs	Civ C cfs	PfRsr cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	Outflow cfs
1212	0.188	562.05	0.215	0.203	-----	-----	-----	-----	-----	-----	-----	0.204
1215	0.188	562.05	0.214	0.202	-----	-----	-----	-----	-----	-----	-----	0.202
1218	0.187	562.05	0.213	0.201	-----	-----	-----	-----	-----	-----	-----	0.201
1221	0.187	562.05	0.211	0.199	-----	-----	-----	-----	-----	-----	-----	0.199
1224	0.187	562.05	0.210	0.198	-----	-----	-----	-----	-----	-----	-----	0.198
1227	0.186	562.05	0.209	0.197	-----	-----	-----	-----	-----	-----	-----	0.197
1230	0.186	562.05	0.208	0.196	-----	-----	-----	-----	-----	-----	-----	0.196
1233	0.186	562.05	0.207	0.195	-----	-----	-----	-----	-----	-----	-----	0.195
1236	0.185	562.05	0.206	0.194	-----	-----	-----	-----	-----	-----	-----	0.194
1239	0.185	562.05	0.205	0.193	-----	-----	-----	-----	-----	-----	-----	0.193
1242	0.185	562.05	0.205	0.193	-----	-----	-----	-----	-----	-----	-----	0.193
1245	0.184	562.05	0.204	0.192	-----	-----	-----	-----	-----	-----	-----	0.192
1248	0.184	562.04	0.203	0.191	-----	-----	-----	-----	-----	-----	-----	0.191
1251	0.184	562.04	0.203	0.190	-----	-----	-----	-----	-----	-----	-----	0.190
1254	0.183	562.04	0.202	0.190	-----	-----	-----	-----	-----	-----	-----	0.190
1257	0.183	562.04	0.201	0.189	-----	-----	-----	-----	-----	-----	-----	0.189
1260	0.183	562.04	0.201	0.189	-----	-----	-----	-----	-----	-----	-----	0.189
1263	0.182	562.04	0.200	0.188	-----	-----	-----	-----	-----	-----	-----	0.188
1266	0.182	562.04	0.200	0.187	-----	-----	-----	-----	-----	-----	-----	0.187
1269	0.181	562.04	0.199	0.187	-----	-----	-----	-----	-----	-----	-----	0.187
1272	0.181	562.04	0.199	0.186	-----	-----	-----	-----	-----	-----	-----	0.186
1275	0.181	562.04	0.198	0.186	-----	-----	-----	-----	-----	-----	-----	0.186
1278	0.180	562.04	0.198	0.185	-----	-----	-----	-----	-----	-----	-----	0.185
1281	0.180	562.04	0.197	0.185	-----	-----	-----	-----	-----	-----	-----	0.185
1284	0.180	562.04	0.197	0.184	-----	-----	-----	-----	-----	-----	-----	0.184
1287	0.179	562.04	0.196	0.184	-----	-----	-----	-----	-----	-----	-----	0.184
1290	0.179	562.04	0.196	0.184	-----	-----	-----	-----	-----	-----	-----	0.184
1293	0.179	562.04	0.195	0.183	-----	-----	-----	-----	-----	-----	-----	0.183
1296	0.178	562.04	0.195	0.183	-----	-----	-----	-----	-----	-----	-----	0.183
1299	0.178	562.04	0.194	0.182	-----	-----	-----	-----	-----	-----	-----	0.182
1302	0.178	562.04	0.194	0.182	-----	-----	-----	-----	-----	-----	-----	0.182
1305	0.177	562.04	0.194	0.181	-----	-----	-----	-----	-----	-----	-----	0.181
1308	0.177	562.04	0.193	0.181	-----	-----	-----	-----	-----	-----	-----	0.181
1311	0.177	562.04	0.193	0.181	-----	-----	-----	-----	-----	-----	-----	0.181
1314	0.176	562.04	0.193	0.180	-----	-----	-----	-----	-----	-----	-----	0.180
1317	0.176	562.04	0.192	0.180	-----	-----	-----	-----	-----	-----	-----	0.180
1320	0.176	562.04	0.192	0.179	-----	-----	-----	-----	-----	-----	-----	0.179
1323	0.175	562.04	0.191	0.179	-----	-----	-----	-----	-----	-----	-----	0.179
1326	0.175	562.04	0.191	0.179	-----	-----	-----	-----	-----	-----	-----	0.179
1329	0.174	562.04	0.191	0.178	-----	-----	-----	-----	-----	-----	-----	0.178
1332	0.174	562.04	0.190	0.178	-----	-----	-----	-----	-----	-----	-----	0.178
1335	0.174	562.04	0.190	0.178	-----	-----	-----	-----	-----	-----	-----	0.178
1338	0.173	562.04	0.190	0.177	-----	-----	-----	-----	-----	-----	-----	0.177
1341	0.173	562.04	0.189	0.177	-----	-----	-----	-----	-----	-----	-----	0.177
1344	0.173	562.04	0.189	0.176	-----	-----	-----	-----	-----	-----	-----	0.176
1347	0.172	562.04	0.188	0.176	-----	-----	-----	-----	-----	-----	-----	0.176
1350	0.172	562.04	0.188	0.176	-----	-----	-----	-----	-----	-----	-----	0.176
1353	0.172	562.04	0.188	0.175	-----	-----	-----	-----	-----	-----	-----	0.175
1356	0.171	562.04	0.187	0.175	-----	-----	-----	-----	-----	-----	-----	0.175
1359	0.171	562.03	0.187	0.175	-----	-----	-----	-----	-----	-----	-----	0.175
1362	0.171	562.03	0.187	0.174	-----	-----	-----	-----	-----	-----	-----	0.174
1365	0.170	562.03	0.186	0.174	-----	-----	-----	-----	-----	-----	-----	0.174
1368	0.170	562.03	0.186	0.174	-----	-----	-----	-----	-----	-----	-----	0.174
1371	0.170	562.03	0.186	0.173	-----	-----	-----	-----	-----	-----	-----	0.173

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Hydrograph Discharge Table

Time (min)	Inflow cfs	Elevation ft	Civ A cfs	Civ B cfs	Civ C cfs	PfRsr cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	Outflow cfs
1374	0.169	562.03	0.185	0.173	----	----	----	----	----	----	----	0.173
1377	0.169	562.03	0.185	0.173	----	----	----	----	----	----	----	0.173
1380	0.169	562.03	0.185	0.172	----	----	----	----	----	----	----	0.172
1383	0.168	562.03	0.184	0.172	----	----	----	----	----	----	----	0.172
1386	0.168	562.03	0.184	0.171	----	----	----	----	----	----	----	0.171
1389	0.167	562.03	0.184	0.171	----	----	----	----	----	----	----	0.171
1392	0.167	562.03	0.183	0.171	----	----	----	----	----	----	----	0.171
1395	0.167	562.03	0.183	0.170	----	----	----	----	----	----	----	0.170
1398	0.166	562.03	0.183	0.170	----	----	----	----	----	----	----	0.170
1401	0.166	562.03	0.182	0.170	----	----	----	----	----	----	----	0.170
1404	0.166	562.03	0.182	0.169	----	----	----	----	----	----	----	0.169
1407	0.165	562.03	0.182	0.169	----	----	----	----	----	----	----	0.169
1410	0.165	562.03	0.181	0.169	----	----	----	----	----	----	----	0.169
1413	0.165	562.03	0.181	0.168	----	----	----	----	----	----	----	0.168
1416	0.164	562.03	0.180	0.168	----	----	----	----	----	----	----	0.168
1419	0.164	562.03	0.180	0.168	----	----	----	----	----	----	----	0.168
1422	0.164	562.03	0.180	0.167	----	----	----	----	----	----	----	0.167
1425	0.163	562.03	0.180	0.167	----	----	----	----	----	----	----	0.167
1428	0.163	562.03	0.179	0.167	----	----	----	----	----	----	----	0.167
1431	0.163	562.03	0.179	0.166	----	----	----	----	----	----	----	0.166
1434	0.162	562.03	0.178	0.166	----	----	----	----	----	----	----	0.166
1437	0.162	562.03	0.178	0.165	----	----	----	----	----	----	----	0.165
1440	0.161	562.03	0.178	0.165	----	----	----	----	----	----	----	0.165
1443	0.129	562.03	0.176	0.163	----	----	----	----	----	----	----	0.163
1446	0.064	562.02	0.170	0.157	----	----	----	----	----	----	----	0.157
1449	0.021	562.02	0.159	0.146	----	----	----	----	----	----	----	0.146
1452	0.000	562.01	0.147	0.134	----	----	----	----	----	----	----	0.134
1455	0.000	562.00	0.135	0.121	----	----	----	----	----	----	----	0.121

...End

Pond Report

Hydraflow Hydrographs by Intelisolve v9.2.

Friday, Sep 9, 2016

Pond No. 1 - Revised Basin

Pond Data

Contours - User-defined contour areas. Conic method used for volume calculation. Beginning Elevation = 561.82 ft

Stage / Storage Table

Stage (ft)	Elevation (ft)	Contour area (sqft)	Incr. Storage (cuft)	Total storage (cuft)
0.00	561.82	00	0	0
0.18	562.00	48	3	3
1.18	563.00	8,285	2,976	2,978
2.18	564.00	9,470	8,860	11,838
3.18	565.00	10,743	10,099	21,937
4.18	566.00	12,082	11,405	33,342
5.18	567.00	13,488	12,777	46,119

Culvert / Orifice Structures

	[A]	[B]	[C]	[PrfRsr]
Rise (in)	= 36.00	13.00	15.00	0.00
Span (in)	= 36.00	13.00	23.00	0.00
No. Barrels	= 1	1	2	0
Invert El. (ft)	= 561.82	561.82	564.13	0.00
Length (ft)	= 32.00	0.00	0.00	0.00
Slope (%)	= 0.59	0.00	0.00	n/a
N-Value	= 0.13	.013	.013	n/a
Orifice Coeff.	= 0.60	0.60	0.60	0.60
Multi-Stage	= n/a	Yes	Yes	No

Weir Structures

	[A]	[B]	[C]	[D]
Crest Len (ft)	= 14.82	0.00	0.00	0.00
Crest El. (ft)	= 566.02	0.00	0.00	0.00
Weir Coeff.	= 3.33	3.33	3.33	3.33
Weir Type	= Rect	---	---	---
Multi-Stage	= Yes	No	No	No
Exfil. (in/hr)	= 0.000 (by Wet area)			
TW Elev. (ft)	= 0.00			

Note: Culvert/Orifice outflows are analyzed under inlet (ic) and outlet (oc) control. Weir rises checked for orifice conditions (o) and submergence (s).

Stage / Storage / Discharge Table

Stage ft	Storage cuft	Elevation ft	Civ A cfs	Civ B cfs	Civ C cfs	PrfRsr cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	User cfs	Total cfs
0.00	0	561.82	0.00	0.00	0.00	---	0.00	---	---	---	---	---	0.000
0.02	0	561.84	0.00 ic	0.00 ic	0.00	---	0.00	---	---	---	---	---	0.001
0.04	1	561.86	0.01 ic	0.01 ic	0.00	---	0.00	---	---	---	---	---	0.005
0.05	1	561.87	0.01 ic	0.01 ic	0.00	---	0.00	---	---	---	---	---	0.011
0.07	1	561.89	0.02 ic	0.02 ic	0.00	---	0.00	---	---	---	---	---	0.021
0.09	1	561.91	0.03 ic	0.03 ic	0.00	---	0.00	---	---	---	---	---	0.033
0.11	2	561.93	0.05 ic	0.04 ic	0.00	---	0.00	---	---	---	---	---	0.043
0.13	2	561.95	0.06 ic	0.06 ic	0.00	---	0.00	---	---	---	---	---	0.050
0.14	2	561.96	0.08 ic	0.08 ic	0.00	---	0.00	---	---	---	---	---	0.078
0.16	2	561.98	0.10 ic	0.10 ic	0.00	---	0.00	---	---	---	---	---	0.099
0.18	3	562.00	0.13 ic	0.12 ic	0.00	---	0.00	---	---	---	---	---	0.118
0.28	300	562.10	0.29 ic	0.28 ic	0.00	---	0.00	---	---	---	---	---	0.280
0.36	598	562.20	0.51 ic	0.51 ic	0.00	---	0.00	---	---	---	---	---	0.505
0.48	895	562.30	0.81 ic	0.76 ic	0.00	---	0.00	---	---	---	---	---	0.776
0.58	1,193	562.40	1.13 ic	1.11 ic	0.00	---	0.00	---	---	---	---	---	1.105
0.68	1,491	562.50	1.53 ic	1.45 ic	0.00	---	0.00	---	---	---	---	---	1.450
0.78	1,789	562.60	1.85 oc	1.84 ic	0.00	---	0.00	---	---	---	---	---	1.840
0.89	2,086	562.70	2.18 oc	2.18 ic	0.00	---	0.00	---	---	---	---	---	2.177
0.95	2,383	562.80	2.66 oc	2.54 ic	0.00	---	0.00	---	---	---	---	---	2.538
1.08	2,681	562.90	2.92 oc	2.89 ic	0.00	---	0.00	---	---	---	---	---	2.885
1.18	2,978	563.00	3.20 oc	3.09 ic	0.00	---	0.00	---	---	---	---	---	3.086
1.28	3,664	563.10	3.34 oc	3.33 ic	0.00	---	0.00	---	---	---	---	---	3.332
1.38	4,750	563.20	3.63 oc	3.50 ic	0.00	---	0.00	---	---	---	---	---	3.503
1.48	5,636	563.30	3.78 oc	3.72 ic	0.00	---	0.00	---	---	---	---	---	3.719
1.58	6,522	563.40	3.93 oc	3.92 ic	0.00	---	0.00	---	---	---	---	---	3.924
1.68	7,408	563.50	4.09 oc	4.09 ic	0.00	---	0.00	---	---	---	---	---	4.087
1.78	8,294	563.60	4.40 oc	4.25 ic	0.00	---	0.00	---	---	---	---	---	4.253
1.88	9,180	563.70	4.57 oc	4.43 ic	0.00	---	0.00	---	---	---	---	---	4.431
1.98	10,066	563.80	4.73 oc	4.60 ic	0.00	---	0.00	---	---	---	---	---	4.602
2.08	10,952	563.90	4.90 oc	4.77 ic	0.00	---	0.00	---	---	---	---	---	4.767
2.18	11,838	564.00	5.07 oc	4.93 ic	0.00	---	0.00	---	---	---	---	---	4.926
2.28	12,848	564.10	5.24 oc	5.08 ic	0.00	---	0.00	---	---	---	---	---	5.079
2.38	13,858	564.20	5.59 oc	5.19 ic	0.24 ic	---	0.00	---	---	---	---	---	5.427
2.48	14,868	564.30	6.12 oc	5.21 ic	0.91 ic	---	0.00	---	---	---	---	---	6.124
2.58	15,878	564.40	7.05 oc	5.22 ic	1.83 ic	---	0.00	---	---	---	---	---	7.050

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Revised Basin

Stage / Storage / Discharge Table

Stage ft	Storage cuft	Elevation ft	Civ A cfs	Civ B cfs	Civ C cfs	PrfRsr cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Extl cfs	User cfs	Total cfs
2.68	16,888	564.50	8.20 oc	5.15 ic	2.94 ic	---	0.00	---	---	---	---	---	8.081
2.78	17,897	564.60	9.37 oc	5.07 ic	4.20 ic	---	0.00	---	---	---	---	---	9.270
2.88	18,907	564.75	10.73 oc	4.94 ic	5.61 ic	---	0.00	---	---	---	---	---	10.55
2.98	19,917	564.80	12.06 oc	4.81 ic	7.15 ic	---	0.00	---	---	---	---	---	11.97
3.08	20,927	564.90	13.50 oc	4.64 ic	8.81 ic	---	0.00	---	---	---	---	---	13.46
3.18	21,937	565.00	15.11 oc	4.38 ic	10.58 ic	---	0.00	---	---	---	---	---	14.98
3.28	23,077	565.10	16.56 oc	4.10 ic	12.47 ic	---	0.00	---	---	---	---	---	16.56
3.38	24,218	565.20	18.08 oc	3.83 ic	14.44 ic	---	0.00	---	---	---	---	---	18.08
3.48	25,358	565.30	18.81 oc	3.21 ic	15.60 ic	---	0.00	---	---	---	---	---	18.81
3.58	26,499	565.40	20.34 oc	3.28 ic	17.05 ic	---	0.00	---	---	---	---	---	20.33
3.68	27,639	565.50	21.62 oc	3.49 ic	18.13 ic	---	0.00	---	---	---	---	---	21.61
3.78	28,780	565.60	22.83 oc	3.68 ic	19.14 ic	---	0.00	---	---	---	---	---	22.60
3.88	29,920	565.70	23.98 oc	3.87 ic	20.11 ic	---	0.00	---	---	---	---	---	23.97
3.98	31,061	565.80	25.07 oc	4.04 ic	21.03 ic	---	0.00	---	---	---	---	---	25.07
4.08	32,201	565.90	26.12 oc	4.21 ic	21.91 ic	---	0.00	---	---	---	---	---	26.12
4.18	33,342	566.00	27.14 oc	4.38 ic	22.76 ic	---	0.00	---	---	---	---	---	27.13
4.28	34,519	566.10	28.00 oc	4.48 ic	23.30 ic	---	1.12	---	---	---	---	---	28.69
4.38	35,697	566.20	31.88 oc	4.50 ic	23.41 ic	---	3.77	---	---	---	---	---	31.67
4.48	37,175	566.30	34.97 oc	4.46 ic	23.20 ic	---	7.31	---	---	---	---	---	34.97
4.58	38,453	566.40	38.61 oc	4.36 ic	22.69 ic	---	11.55	---	---	---	---	---	38.61
4.68	39,730	566.50	42.48 oc	4.21 ic	21.87 ic	---	16.40	---	---	---	---	---	42.48
4.78	41,008	566.60	46.48 oc	3.98 ic	20.72 ic	---	21.79	---	---	---	---	---	46.49
4.88	42,286	566.70	50.57 oc	3.70 ic	19.21 ic	---	27.68	---	---	---	---	---	50.57
4.98	43,564	566.80	53.93 oc	3.46 ic	17.94 ic	---	32.54 s	---	---	---	---	---	53.93
5.08	44,841	566.90	56.74 oc	3.25 ic	18.91 ic	---	36.58 s	---	---	---	---	---	56.74
5.18	46,119	567.00	59.27 oc	3.07 ic	15.98 ic	---	40.21 s	---	---	---	---	---	59.27

...End

Hydrograph Summary Report

Hydraflow Hydrographs by Intelisolve v9.2

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph description
1	SCS Runoff	23.39	3	720	63,383	---	-----	-----	Existing to NW (Mason Report)
2	SCS Runoff	36.96	3	717	97,431	---	-----	-----	Proposed (Mason Report)
3	SCS Runoff	42.44	3	717	102,509	---	-----	-----	Proposed to Revise Basin
4	Reservoir	22.00	3	723	102,515	3	565.57	28,001	Pr thru Rev Basin
11-1230-HQ-SCS-09-09-16.gpw					Return Period: 10 Year		Friday, Sep 9, 2016		

Hydrograph Report

Hydroflow Hydrographs by Intelisolve v9.2

Friday, Sep 9, 2016

Hyd. No. 1

Existing to NW (Mason Report)

Hydrograph type	= SCS Runoff	Peak discharge	= 23.39 cfs
Storm frequency	= 10 yrs	Time to peak	= 720 min
Time interval	= 3 min	Hyd. volume	= 97,684 cuft
Drainage area	= 5.870 ac	Curve number	= 79
Basin Slope	= 2.7 %	Hydraulic length	= 808 ft
Tc method	= USER	Time of conc. (Tc)	= 14.0 min
Total precip.	= 5.20 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

Hydrograph Discharge Table

(Printed values == 1.00% of Qp)

Time -- Outflow (min) cfs)	Time -- Outflow (min) cfs)	Time -- Outflow (min) cfs)	Time -- Outflow (min) cfs)
591 0.237	702 3.885	813 1.262	924 0.730
594 0.247	705 5.535	816 1.230	927 0.721
597 0.258	708 7.761	819 1.199	930 0.713
600 0.269	711 10.91	822 1.171	933 0.704
603 0.281	714 15.39	825 1.144	936 0.695
606 0.294	717 20.33	828 1.119	939 0.686
609 0.307	720 23.39 <<	831 1.094	942 0.678
612 0.322	723 22.74	834 1.069	945 0.669
615 0.337	726 18.84	837 1.045	948 0.660
618 0.353	729 14.06	840 1.020	951 0.651
621 0.370	732 9.792	843 0.996	954 0.642
624 0.388	735 6.453	846 0.974	957 0.633
627 0.406	738 4.501	849 0.955	960 0.625
630 0.425	741 3.806	852 0.941	963 0.616
633 0.445	744 3.541	855 0.929	966 0.608
636 0.466	747 3.275	858 0.919	969 0.601
639 0.489	750 3.006	861 0.910	972 0.596
642 0.515	753 2.744	864 0.901	975 0.592
645 0.543	756 2.507	867 0.893	978 0.588
648 0.573	759 2.314	870 0.884	981 0.585
651 0.604	762 2.168	873 0.876	984 0.582
654 0.636	765 2.059	876 0.868	987 0.579
657 0.670	768 1.976	879 0.859	990 0.576
660 0.705	771 1.910	882 0.851	993 0.573
663 0.742	774 1.848	885 0.842	996 0.570
666 0.784	777 1.786	888 0.834	999 0.566
669 0.834	780 1.724	891 0.825	1002 0.563
672 0.894	783 1.663	894 0.816	1005 0.560
675 0.961	786 1.605	897 0.808	1008 0.557
678 1.035	789 1.553	900 0.799	1011 0.554
681 1.115	792 1.508	903 0.791	1014 0.551
684 1.198	795 1.468	906 0.782	1017 0.548
687 1.285	798 1.432	909 0.773	1020 0.545
690 1.375	801 1.397	912 0.765	1023 0.542
693 1.537	804 1.364	915 0.756	1026 0.539
696 1.814	807 1.330	918 0.747	1029 0.535
699 2.671	810 1.296	921 0.739	1032 0.532

Continues on next page.

Hydrograph Discharge Table

Time -- Outflow (min cfs)	Time -- Outflow (min cfs)	Time -- Outflow (min cfs)			
1035	0.529	1197	0.357	1359	0.313
1038	0.526	1200	0.354	1362	0.312
1041	0.523	1203	0.351	1365	0.312
1044	0.520	1206	0.348	1368	0.311
1047	0.517	1209	0.346	1371	0.310
1050	0.514	1212	0.344	1374	0.310
1053	0.511	1215	0.343	1377	0.309
1056	0.507	1218	0.342	1380	0.309
1059	0.504	1221	0.341	1383	0.308
1062	0.501	1224	0.341	1386	0.307
1065	0.498	1227	0.340	1389	0.307
1068	0.495	1230	0.340	1392	0.306
1071	0.492	1233	0.339	1395	0.305
1074	0.488	1236	0.338	1398	0.305
1077	0.485	1239	0.338	1401	0.304
1080	0.482	1242	0.337	1404	0.304
1083	0.479	1245	0.336	1407	0.303
1086	0.476	1248	0.336	1410	0.302
1089	0.473	1251	0.335	1413	0.302
1092	0.470	1254	0.335	1416	0.301
1095	0.466	1257	0.334	1419	0.300
1098	0.463	1260	0.333	1422	0.300
1101	0.460	1263	0.333	1425	0.299
1104	0.457	1266	0.332	1428	0.299
1107	0.454	1269	0.332	1431	0.298
1110	0.450	1272	0.331	1434	0.297
1113	0.447	1275	0.330	1437	0.297
1116	0.444	1278	0.330	1440	0.296
1119	0.441	1281	0.329	1443	0.271
1122	0.438	1284	0.328		
1125	0.434	1287	0.328	...End	
1128	0.431	1290	0.327		
1131	0.428	1293	0.327		
1134	0.425	1296	0.326		
1137	0.422	1299	0.325		
1140	0.418	1302	0.325		
1143	0.415	1305	0.324		
1146	0.412	1308	0.324		
1149	0.409	1311	0.323		
1152	0.406	1314	0.322		
1155	0.402	1317	0.322		
1158	0.399	1320	0.321		
1161	0.396	1323	0.320		
1164	0.393	1326	0.320		
1167	0.390	1329	0.319		
1170	0.386	1332	0.319		
1173	0.383	1335	0.318		
1176	0.380	1338	0.317		
1179	0.377	1341	0.317		
1182	0.373	1344	0.316		
1185	0.370	1347	0.315		
1188	0.367	1350	0.315		
1191	0.364	1353	0.314		
1194	0.360	1356	0.314		

Hydrograph Report

Hydroflow Hydrographs by Intolisolve v9.2

Friday, Sep 9, 2016

Hyd. No. 2

Proposed (Mason Report)

Hydrograph type	= SCS Runoff	Peak discharge	= 38.96 cfs
Storm frequency	= 10 yrs	Time to peak	= 717 min
Time interval	= 3 min	Hyd. volume	= 135,157 cuft
Drainage area	= 6.200 ac	Curve number	= 95
Basin Slope	= 2.7 %	Hydraulic length	= 808 ft
Tc method	= USER	Time of conc. (Tc)	= 6.0 min
Total precip.	= 5.20 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

Hydrograph Discharge Table

(Printed volume = 1.00% of Qp)

Time -- Outflow (min cfs)	Time -- Outflow (min cfs)	Time -- Outflow (min cfs)	Time -- Outflow (min cfs)
408 0.392	519 0.654	630 1.320	741 4.259
411 0.396	522 0.668	633 1.357	744 3.919
414 0.401	525 0.683	636 1.402	747 3.578
417 0.405	528 0.697	639 1.453	750 3.237
420 0.409	531 0.712	642 1.509	753 2.922
423 0.413	534 0.728	645 1.567	756 2.686
426 0.417	537 0.741	648 1.625	759 2.538
429 0.422	540 0.755	651 1.683	762 2.442
432 0.426	543 0.769	654 1.742	765 2.365
435 0.430	546 0.779	657 1.801	768 2.287
438 0.434	549 0.785	660 1.860	771 2.209
441 0.439	552 0.789	663 1.927	774 2.131
444 0.443	555 0.791	666 2.018	777 2.054
447 0.447	558 0.794	669 2.134	780 1.976
450 0.451	561 0.796	672 2.267	783 1.901
453 0.455	564 0.799	675 2.406	786 1.838
456 0.460	567 0.801	678 2.545	789 1.786
459 0.464	570 0.803	681 2.686	792 1.742
462 0.468	573 0.808	684 2.827	795 1.700
465 0.472	576 0.818	687 2.969	798 1.658
468 0.476	579 0.835	690 3.111	801 1.616
471 0.480	582 0.856	693 3.576	804 1.574
474 0.485	585 0.879	696 5.009	807 1.532
477 0.489	588 0.902	699 7.531	810 1.490
480 0.493	591 0.925	702 10.73	813 1.450
483 0.498	594 0.948	705 14.20	816 1.412
486 0.506	597 0.971	708 18.34	819 1.379
489 0.517	600 0.994	711 24.39	822 1.349
492 0.529	603 1.019	714 32.61	825 1.319
495 0.543	606 1.046	717 38.96 <<	828 1.289
498 0.556	609 1.078	720 36.11	831 1.259
501 0.570	612 1.111	723 24.67	834 1.229
504 0.584	615 1.145	726 13.32	837 1.198
507 0.598	618 1.180	729 7.106	840 1.168
510 0.612	621 1.215	732 5.288	843 1.140
513 0.626	624 1.250	735 4.939	846 1.118
516 0.640	627 1.285	738 4.599	849 1.102

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Hydrograph Discharge Table

Time -- Outflow (min cfs)	Time -- Outflow (min cfs)	Time -- Outflow (min cfs)			
852	1.091	1014	0.633	1176	0.429
855	1.080	1017	0.629	1179	0.426
858	1.070	1020	0.625	1182	0.422
861	1.059	1023	0.621	1185	0.418
864	1.049	1026	0.618	1188	0.414
867	1.038	1029	0.614	1191	0.411
870	1.028	1032	0.610	1194	0.407
873	1.017	1035	0.606	1197	0.403
876	1.007	1038	0.603	1200	0.399
879	0.996	1041	0.599	1203	0.396
882	0.986	1044	0.595	1206	0.393
885	0.975	1047	0.591	1209	0.392
888	0.965	1050	0.587	1212	0.391
891	0.954	1053	0.584	1215	0.390
894	0.944	1056	0.580		
897	0.933	1059	0.576	...End	
900	0.923	1062	0.572		
903	0.912	1065	0.569		
906	0.902	1068	0.565		
909	0.891	1071	0.561		
912	0.881	1074	0.557		
915	0.870	1077	0.554		
918	0.860	1080	0.550		
921	0.849	1083	0.546		
924	0.839	1086	0.542		
927	0.828	1089	0.539		
930	0.818	1092	0.535		
933	0.807	1095	0.531		
936	0.797	1098	0.527		
939	0.786	1101	0.524		
942	0.776	1104	0.520		
945	0.765	1107	0.516		
948	0.755	1110	0.512		
951	0.744	1113	0.508		
954	0.734	1116	0.505		
957	0.723	1119	0.501		
960	0.713	1122	0.497		
963	0.703	1125	0.493		
966	0.695	1128	0.490		
969	0.689	1131	0.486		
972	0.685	1134	0.482		
975	0.681	1137	0.478		
978	0.678	1140	0.475		
981	0.674	1143	0.471		
984	0.670	1146	0.467		
987	0.666	1149	0.463		
990	0.663	1152	0.460		
993	0.659	1155	0.456		
996	0.655	1158	0.452		
999	0.651	1161	0.448		
1002	0.648	1164	0.445		
1005	0.644	1167	0.441		
1008	0.640	1170	0.437		
1011	0.636	1173	0.433		

Hydrograph Report

Hydraflow Hydrographs by Intelisolve v9.2

Friday, Sep 9, 2016

Hyd. No. 3

Proposed to Revise Basin

Hydrograph type	= SCS Runoff	Peak discharge	= 42.44 cfs
Storm frequency	= 10 yrs	Time to peak	= 717 min
Time interval	= 3 min	Hyd. volume	= 144,854 cuft
Drainage area	= 7.030 ac	Curve number	= 92*
Basin Slope	= 2.7 %	Hydraulic length	= 808 ft
Tc method	= USER	Time of conc. (Tc)	= 6.0 min
Total precip	= 5.20 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

* Composite (Area/CN) = [(1.210 x 74) + (1.430 x 89) + (4.390 x 98)] / 7.030

(Printed values are 1.00% of Qp)

Hydrograph Discharge Table

Time (min)	Outflow (cfs)	Time (min)	Outflow (cfs)	Time (min)	Outflow (cfs)	Time (min)	Outflow (cfs)
483	0.427	594	0.899	705	14.98	816	1.571
486	0.435	597	0.923	708	19.47	819	1.534
489	0.446	600	0.947	711	26.13	822	1.500
492	0.458	603	0.973	714	35.25	825	1.467
495	0.471	606	1.001	717	42.44 <<	828	1.434
498	0.484	609	1.034	720	39.54	831	1.400
501	0.498	612	1.068	723	27.11	834	1.367
504	0.511	615	1.104	726	14.68	837	1.334
507	0.525	618	1.140	729	7.849	840	1.300
510	0.539	621	1.176	732	5.847	843	1.269
513	0.553	624	1.213	735	5.464	846	1.245
516	0.567	627	1.250	738	5.091	849	1.227
519	0.581	630	1.287	741	4.716	852	1.214
522	0.596	633	1.327	744	4.341	855	1.203
525	0.610	636	1.374	747	3.964	858	1.191
528	0.625	639	1.427	750	3.587	861	1.179
531	0.640	642	1.486	753	3.239	864	1.168
534	0.655	645	1.547	756	2.978	867	1.156
537	0.670	648	1.608	759	2.815	870	1.145
540	0.685	651	1.670	762	2.710	873	1.133
543	0.700	654	1.732	765	2.624	876	1.121
546	0.711	657	1.795	768	2.538	879	1.110
549	0.718	660	1.859	771	2.452	882	1.098
552	0.723	663	1.931	774	2.368	885	1.087
555	0.727	666	2.026	777	2.280	888	1.075
558	0.732	669	2.149	780	2.194	891	1.063
561	0.736	672	2.288	783	2.112	894	1.052
564	0.740	675	2.435	786	2.042	897	1.040
567	0.744	678	2.583	789	1.985	900	1.028
570	0.748	681	2.733	792	1.936	903	1.017
573	0.753	684	2.884	795	1.889	906	1.005
576	0.765	687	3.037	798	1.843	909	0.993
579	0.783	690	3.192	801	1.797	912	0.982
582	0.804	693	3.681	804	1.750	915	0.970
585	0.828	696	5.178	807	1.704	918	0.958
588	0.851	699	7.826	810	1.657	921	0.947
591	0.875	702	11.22	813	1.612	924	0.935

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Hydrograph Discharge Table

Time -- Outflow (min cfs)	Time -- Outflow (min cfs)	Time -- Outflow (min cfs)			
927	0.923	1089	0.602	1251	0.426
930	0.912	1092	0.597	1254	0.425
933	0.900	1095	0.593		
936	0.888	1098	0.589	...End	
939	0.877	1101	0.585		
942	0.865	1104	0.581		
945	0.853	1107	0.576		
948	0.841	1110	0.572		
951	0.830	1113	0.568		
954	0.818	1116	0.564		
957	0.806	1119	0.560		
960	0.795	1122	0.555		
963	0.784	1125	0.551		
966	0.775	1128	0.547		
969	0.769	1131	0.543		
972	0.764	1134	0.539		
975	0.760	1137	0.534		
978	0.756	1140	0.530		
981	0.752	1143	0.526		
984	0.748	1146	0.522		
987	0.743	1149	0.518		
990	0.739	1152	0.513		
993	0.735	1155	0.509		
996	0.731	1158	0.505		
999	0.727	1161	0.501		
1002	0.723	1164	0.497		
1005	0.718	1167	0.492		
1008	0.714	1170	0.488		
1011	0.710	1173	0.484		
1014	0.706	1176	0.480		
1017	0.702	1179	0.476		
1020	0.698	1182	0.472		
1023	0.693	1185	0.467		
1026	0.689	1188	0.463		
1029	0.685	1191	0.459		
1032	0.681	1194	0.455		
1035	0.677	1197	0.451		
1038	0.673	1200	0.446		
1041	0.668	1203	0.442		
1044	0.664	1206	0.440		
1047	0.660	1209	0.438		
1050	0.656	1212	0.437		
1053	0.652	1215	0.436		
1056	0.648	1218	0.435		
1059	0.643	1221	0.434		
1062	0.639	1224	0.433		
1065	0.635	1227	0.433		
1068	0.631	1230	0.432		
1071	0.627	1233	0.431		
1074	0.622	1236	0.430		
1077	0.618	1239	0.429		
1080	0.614	1242	0.428		
1083	0.610	1245	0.428		
1086	0.606	1248	0.427		

Hydrograph Report

Hydraflow Hydrographs by Intelsolve v9.2

Friday, Sep 9, 2016

Hyd. No. 4

Pr thru Rev Basin

Hydrograph type	= Reservoir	Peak discharge	= 22.00 cfs
Storm frequency	= 10 yrs	Time to peak	= 723 min
Time interval	= 3 min	Hyd. volume	= 144,860 cuft
Inflow hyd. No.	= 3 - Proposed to Revise Basin	Reservoir name	= Revised Basin
Max. Elevation	= 565.57 ft	Max. Storage	= 28,001 cuft

Storage Indication method used:

Hydrograph Discharge Table

(Printed values == 1.00% of Qr)

Time (min)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	PfRsr cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	Outflow cfs
381	0.265	562.06	0.232	0.221	-----	-----	-----	-----	-----	-----	-----	0.221
384	0.270	562.07	0.237	0.225	-----	-----	-----	-----	-----	-----	-----	0.225
387	0.274	562.07	0.241	0.230	-----	-----	-----	-----	-----	-----	-----	0.230
390	0.279	562.07	0.245	0.234	-----	-----	-----	-----	-----	-----	-----	0.234
393	0.284	562.07	0.250	0.238	-----	-----	-----	-----	-----	-----	-----	0.238
396	0.288	562.08	0.254	0.243	-----	-----	-----	-----	-----	-----	-----	0.243
399	0.293	562.08	0.258	0.247	-----	-----	-----	-----	-----	-----	-----	0.247
402	0.298	562.08	0.263	0.252	-----	-----	-----	-----	-----	-----	-----	0.252
405	0.302	562.09	0.267	0.256	-----	-----	-----	-----	-----	-----	-----	0.256
408	0.307	562.09	0.271	0.261	-----	-----	-----	-----	-----	-----	-----	0.261
411	0.312	562.09	0.276	0.265	-----	-----	-----	-----	-----	-----	-----	0.265
414	0.316	562.09	0.280	0.270	-----	-----	-----	-----	-----	-----	-----	0.270
417	0.321	562.10	0.285	0.274	-----	-----	-----	-----	-----	-----	-----	0.274
420	0.326	562.10	0.289	0.279	-----	-----	-----	-----	-----	-----	-----	0.279
423	0.331	562.10	0.295	0.285	-----	-----	-----	-----	-----	-----	-----	0.285
426	0.335	562.10	0.301	0.291	-----	-----	-----	-----	-----	-----	-----	0.291
429	0.340	562.11	0.306	0.297	-----	-----	-----	-----	-----	-----	-----	0.297
432	0.345	562.11	0.312	0.303	-----	-----	-----	-----	-----	-----	-----	0.303
435	0.349	562.11	0.317	0.308	-----	-----	-----	-----	-----	-----	-----	0.308
438	0.354	562.11	0.323	0.314	-----	-----	-----	-----	-----	-----	-----	0.314
441	0.359	562.12	0.328	0.319	-----	-----	-----	-----	-----	-----	-----	0.319
444	0.364	562.12	0.333	0.325	-----	-----	-----	-----	-----	-----	-----	0.325
447	0.369	562.12	0.338	0.330	-----	-----	-----	-----	-----	-----	-----	0.330
450	0.373	562.12	0.343	0.335	-----	-----	-----	-----	-----	-----	-----	0.335
453	0.378	562.13	0.348	0.340	-----	-----	-----	-----	-----	-----	-----	0.340
456	0.383	562.13	0.353	0.345	-----	-----	-----	-----	-----	-----	-----	0.345
459	0.388	562.13	0.357	0.351	-----	-----	-----	-----	-----	-----	-----	0.351
462	0.392	562.13	0.362	0.356	-----	-----	-----	-----	-----	-----	-----	0.356
465	0.397	562.14	0.367	0.361	-----	-----	-----	-----	-----	-----	-----	0.361
468	0.402	562.14	0.372	0.366	-----	-----	-----	-----	-----	-----	-----	0.366
471	0.407	562.14	0.377	0.371	-----	-----	-----	-----	-----	-----	-----	0.371
474	0.412	562.14	0.381	0.376	-----	-----	-----	-----	-----	-----	-----	0.375
477	0.417	562.14	0.386	0.380	-----	-----	-----	-----	-----	-----	-----	0.380
480	0.421	562.15	0.391	0.385	-----	-----	-----	-----	-----	-----	-----	0.385
483	0.427	562.15	0.395	0.390	-----	-----	-----	-----	-----	-----	-----	0.390
486	0.435	562.15	0.400	0.395	-----	-----	-----	-----	-----	-----	-----	0.395
489	0.446	562.15	0.406	0.401	-----	-----	-----	-----	-----	-----	-----	0.401
492	0.458	562.16	0.412	0.408	-----	-----	-----	-----	-----	-----	-----	0.408
495	0.471	562.16	0.419	0.415	-----	-----	-----	-----	-----	-----	-----	0.415
498	0.484	562.16	0.427	0.423	-----	-----	-----	-----	-----	-----	-----	0.423
501	0.498	562.17	0.435	0.432	-----	-----	-----	-----	-----	-----	-----	0.432

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Hydrograph Discharge Table

Time (min)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	PfRsr cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	Outflow cfs
504	0.511	562.17	0.444	0.441	-----	-----	-----	-----	-----	-----	-----	0.441
507	0.525	562.18	0.453	0.451	-----	-----	-----	-----	-----	-----	-----	0.451
510	0.539	562.18	0.463	0.461	-----	-----	-----	-----	-----	-----	-----	0.461
513	0.553	562.19	0.473	0.472	-----	-----	-----	-----	-----	-----	-----	0.472
516	0.567	562.19	0.484	0.483	-----	-----	-----	-----	-----	-----	-----	0.483
519	0.581	562.20	0.495	0.495	-----	-----	-----	-----	-----	-----	-----	0.495
522	0.596	562.20	0.507	0.507	-----	-----	-----	-----	-----	-----	-----	0.507
525	0.610	562.21	0.523	0.521	-----	-----	-----	-----	-----	-----	-----	0.521
528	0.625	562.21	0.539	0.536	-----	-----	-----	-----	-----	-----	-----	0.536
531	0.640	562.22	0.555	0.550	-----	-----	-----	-----	-----	-----	-----	0.550
534	0.655	562.22	0.572	0.565	-----	-----	-----	-----	-----	-----	-----	0.565
537	0.670	562.23	0.588	0.580	-----	-----	-----	-----	-----	-----	-----	0.580
540	0.685	562.23	0.604	0.595	-----	-----	-----	-----	-----	-----	-----	0.595
543	0.700	562.24	0.621	0.609	-----	-----	-----	-----	-----	-----	-----	0.609
546	0.711	562.24	0.637	0.624	-----	-----	-----	-----	-----	-----	-----	0.624
549	0.718	562.25	0.652	0.638	-----	-----	-----	-----	-----	-----	-----	0.638
552	0.723	562.25	0.666	0.650	-----	-----	-----	-----	-----	-----	-----	0.650
555	0.727	562.26	0.679	0.661	-----	-----	-----	-----	-----	-----	-----	0.661
558	0.732	562.26	0.690	0.672	-----	-----	-----	-----	-----	-----	-----	0.672
561	0.736	562.26	0.701	0.681	-----	-----	-----	-----	-----	-----	-----	0.681
564	0.740	562.27	0.710	0.690	-----	-----	-----	-----	-----	-----	-----	0.690
567	0.744	562.27	0.719	0.698	-----	-----	-----	-----	-----	-----	-----	0.698
570	0.748	562.27	0.727	0.705	-----	-----	-----	-----	-----	-----	-----	0.705
573	0.753	562.28	0.735	0.712	-----	-----	-----	-----	-----	-----	-----	0.712
576	0.765	562.28	0.743	0.719	-----	-----	-----	-----	-----	-----	-----	0.719
579	0.783	562.28	0.752	0.727	-----	-----	-----	-----	-----	-----	-----	0.727
582	0.804	562.29	0.763	0.737	-----	-----	-----	-----	-----	-----	-----	0.737
585	0.828	562.29	0.776	0.749	-----	-----	-----	-----	-----	-----	-----	0.749
588	0.851	562.30	0.791	0.763	-----	-----	-----	-----	-----	-----	-----	0.763
591	0.875	562.30	0.808	0.778	-----	-----	-----	-----	-----	-----	-----	0.778
594	0.899	562.31	0.828	0.798	-----	-----	-----	-----	-----	-----	-----	0.798
597	0.923	562.31	0.848	0.818	-----	-----	-----	-----	-----	-----	-----	0.818
600	0.947	562.32	0.868	0.840	-----	-----	-----	-----	-----	-----	-----	0.840
603	0.973	562.33	0.889	0.861	-----	-----	-----	-----	-----	-----	-----	0.861
606	1.001	562.33	0.912	0.884	-----	-----	-----	-----	-----	-----	-----	0.884
609	1.034	562.34	0.935	0.908	-----	-----	-----	-----	-----	-----	-----	0.908
612	1.068	562.35	0.961	0.934	-----	-----	-----	-----	-----	-----	-----	0.934
615	1.104	562.36	0.988	0.962	-----	-----	-----	-----	-----	-----	-----	0.962
618	1.140	562.37	1.016	0.991	-----	-----	-----	-----	-----	-----	-----	0.991
621	1.176	562.37	1.046	1.021	-----	-----	-----	-----	-----	-----	-----	1.021
624	1.213	562.38	1.078	1.052	-----	-----	-----	-----	-----	-----	-----	1.053
627	1.250	562.39	1.108	1.085	-----	-----	-----	-----	-----	-----	-----	1.085
630	1.287	562.40	1.144	1.119	-----	-----	-----	-----	-----	-----	-----	1.119
633	1.327	562.41	1.185	1.154	-----	-----	-----	-----	-----	-----	-----	1.154
636	1.374	562.42	1.229	1.191	-----	-----	-----	-----	-----	-----	-----	1.191
639	1.427	562.44	1.275	1.231	-----	-----	-----	-----	-----	-----	-----	1.231
642	1.486	562.45	1.324	1.273	-----	-----	-----	-----	-----	-----	-----	1.273
645	1.547	562.46	1.378	1.319	-----	-----	-----	-----	-----	-----	-----	1.319
648	1.608	562.48	1.435	1.368	-----	-----	-----	-----	-----	-----	-----	1.368
651	1.670	562.49	1.495	1.419	-----	-----	-----	-----	-----	-----	-----	1.419
654	1.732	562.51	1.551	1.475	-----	-----	-----	-----	-----	-----	-----	1.475
657	1.795	562.52	1.600	1.536	-----	-----	-----	-----	-----	-----	-----	1.536
660	1.859	562.54	1.650	1.597	-----	-----	-----	-----	-----	-----	-----	1.597
663	1.931	562.55	1.700	1.660	-----	-----	-----	-----	-----	-----	-----	1.660

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Hydrograph Discharge Table

Time (min)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	PfRsr cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	Outflow cfs
666	2.026	562.57	1.755	1.727	----	----	----	----	----	----	----	1.727
669	2.149	562.59	1.817	1.804	----	----	----	----	----	----	----	1.803
672	2.288	562.61	1.890	1.885	----	----	----	----	----	----	----	1.885
675	2.435	562.64	1.977	1.973	----	----	----	----	----	----	----	1.973
678	2.583	562.67	2.074	2.072	----	----	----	----	----	----	----	2.072
681	2.733	562.70	2.182	2.181	----	----	----	----	----	----	----	2.181
684	2.884	562.74	2.348	2.304	----	----	----	----	----	----	----	2.304
687	3.037	562.77	2.523	2.434	----	----	----	----	----	----	----	2.434
690	3.192	562.81	2.685	2.567	----	----	----	----	----	----	----	2.567
693	3.681	562.86	2.809	2.732	----	----	----	----	----	----	----	2.732
696	5.178	562.95	3.064	2.987	----	----	----	----	----	----	----	2.987
699	7.826	563.05	3.273	3.215	----	----	----	----	----	----	----	3.215
702	11.22	563.18	3.567	3.485	----	----	----	----	----	----	----	3.485
705	14.96	563.37	3.886	3.862	----	----	----	----	----	----	----	3.862
708	19.47	563.64	4.463	4.318	----	----	----	----	----	----	----	4.318
711	26.13	564.00	5.075	4.933	----	----	----	----	----	----	----	4.933
714	35.25	564.44	7.524	5.189	2.286	----	----	----	----	----	----	7.476
717	42.44 <<	564.94	14.17	4.536	9.551	----	----	----	----	----	----	14.09
720	39.64	565.33	19.29	3.229	16.06	----	----	----	----	----	----	19.29
723	27.11	565.53 <<	22.00	3.549	18.45	----	----	----	----	----	----	22.00 <<
726	14.68	565.52	21.81	3.518	18.29	----	----	----	----	----	----	21.81
729	7.849	565.37	19.81	3.254	16.55	----	----	----	----	----	----	19.80
732	5.847	565.18	17.73	3.739	13.99	----	----	----	----	----	----	17.73
735	5.464	565.01	15.21	4.367	10.73	----	----	----	----	----	----	15.10
738	5.091	564.85	12.84	4.719	8.051	----	----	----	----	----	----	12.77
741	4.716	564.73	11.13	4.901	6.073	----	----	----	----	----	----	10.97
744	4.341	564.63	9.739	5.032	4.585	----	----	----	----	----	----	9.616
747	3.964	564.54	8.658	5.114	3.433	----	----	----	----	----	----	8.547
750	3.587	564.46	7.780	5.174	2.513	----	----	----	----	----	----	7.687
753	3.239	564.39	6.975	5.219	1.756	----	----	----	----	----	----	6.976
756	2.978	564.33	6.386	5.213	1.173	----	----	----	----	----	----	6.386
759	2.815	564.27	5.964	5.203	0.714	----	----	----	----	----	----	5.917
762	2.710	564.22	5.680	5.190	0.358	----	----	----	----	----	----	5.648
765	2.624	564.17	5.476	5.152	0.164	----	----	----	----	----	----	5.316
768	2.538	564.12	5.311	5.102	0.050	----	----	----	----	----	----	5.152
771	2.452	564.07	5.195	5.040	----	----	----	----	----	----	----	5.040
774	2.366	564.03	5.115	4.969	----	----	----	----	----	----	----	4.969
777	2.280	563.98	5.032	4.893	----	----	----	----	----	----	----	4.893
780	2.194	563.93	4.942	4.808	----	----	----	----	----	----	----	4.808
783	2.112	563.87	4.853	4.722	----	----	----	----	----	----	----	4.722
786	2.042	563.82	4.766	4.635	----	----	----	----	----	----	----	4.635
789	1.985	563.77	4.678	4.547	----	----	----	----	----	----	----	4.547
792	1.938	563.72	4.593	4.459	----	----	----	----	----	----	----	4.459
795	1.889	563.67	4.510	4.369	----	----	----	----	----	----	----	4.369
798	1.843	563.62	4.429	4.280	----	----	----	----	----	----	----	4.280
801	1.797	563.57	4.297	4.197	----	----	----	----	----	----	----	4.197
804	1.750	563.52	4.143	4.116	----	----	----	----	----	----	----	4.116
807	1.704	563.47	4.041	4.038	----	----	----	----	----	----	----	4.038
810	1.657	563.42	3.968	3.961	----	----	----	----	----	----	----	3.961
813	1.612	563.38	3.896	3.876	----	----	----	----	----	----	----	3.876
816	1.571	563.33	3.827	3.783	----	----	----	----	----	----	----	3.783
819	1.534	563.29	3.760	3.691	----	----	----	----	----	----	----	3.691
822	1.500	563.24	3.695	3.597	----	----	----	----	----	----	----	3.597
825	1.467	563.20	3.633	3.506	----	----	----	----	----	----	----	3.506

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Hydrograph Discharge Table

Time (min)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	PfRsr cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	Outflow cfs
828	1.434	563.16	3.515	3.435	----	----	----	----	----	----	----	3.435
831	1.400	563.12	3.398	3.366	----	----	----	----	----	----	----	3.366
834	1.367	563.08	3.312	3.284	----	----	----	----	----	----	----	3.284
837	1.334	563.04	3.258	3.190	----	----	----	----	----	----	----	3.190
840	1.300	563.01	3.206	3.099	----	----	----	----	----	----	----	3.099
843	1.269	562.91	2.956	2.908	----	----	----	----	----	----	----	2.908
846	1.245	562.82	2.717	2.610	----	----	----	----	----	----	----	2.610
849	1.227	562.75	2.399	2.342	----	----	----	----	----	----	----	2.342
852	1.214	562.68	2.125	2.124	----	----	----	----	----	----	----	2.124
855	1.203	562.63	1.959	1.955	----	----	----	----	----	----	----	1.955
858	1.191	562.59	1.823	1.811	----	----	----	----	----	----	----	1.811
861	1.179	562.56	1.716	1.679	----	----	----	----	----	----	----	1.679
864	1.168	562.53	1.629	1.572	----	----	----	----	----	----	----	1.572
867	1.156	562.51	1.559	1.486	----	----	----	----	----	----	----	1.486
870	1.145	562.49	1.494	1.419	----	----	----	----	----	----	----	1.418
873	1.133	562.48	1.432	1.366	----	----	----	----	----	----	----	1.366
876	1.121	562.46	1.380	1.321	----	----	----	----	----	----	----	1.321
879	1.110	562.45	1.334	1.282	----	----	----	----	----	----	----	1.282
882	1.098	562.44	1.295	1.248	----	----	----	----	----	----	----	1.248
885	1.087	562.43	1.261	1.219	----	----	----	----	----	----	----	1.219
888	1.075	562.43	1.230	1.193	----	----	----	----	----	----	----	1.193
891	1.063	562.42	1.203	1.170	----	----	----	----	----	----	----	1.169
894	1.052	562.41	1.178	1.148	----	----	----	----	----	----	----	1.148
897	1.040	562.41	1.156	1.129	----	----	----	----	----	----	----	1.129
900	1.028	562.40	1.135	1.111	----	----	----	----	----	----	----	1.111
903	1.017	562.40	1.118	1.095	----	----	----	----	----	----	----	1.095
906	1.005	562.39	1.103	1.080	----	----	----	----	----	----	----	1.080
909	0.993	562.39	1.089	1.065	----	----	----	----	----	----	----	1.065
912	0.982	562.38	1.075	1.051	----	----	----	----	----	----	----	1.051
915	0.970	562.38	1.062	1.037	----	----	----	----	----	----	----	1.037
918	0.958	562.38	1.049	1.024	----	----	----	----	----	----	----	1.024
921	0.947	562.37	1.036	1.011	----	----	----	----	----	----	----	1.011
924	0.935	562.37	1.024	0.998	----	----	----	----	----	----	----	0.998
927	0.923	562.36	1.011	0.986	----	----	----	----	----	----	----	0.986
930	0.912	562.36	0.999	0.973	----	----	----	----	----	----	----	0.973
933	0.900	562.36	0.987	0.961	----	----	----	----	----	----	----	0.961
936	0.888	562.35	0.975	0.949	----	----	----	----	----	----	----	0.949
939	0.877	562.35	0.963	0.937	----	----	----	----	----	----	----	0.937
942	0.865	562.35	0.952	0.925	----	----	----	----	----	----	----	0.925
945	0.853	562.34	0.940	0.913	----	----	----	----	----	----	----	0.913
948	0.841	562.34	0.928	0.901	----	----	----	----	----	----	----	0.901
951	0.830	562.33	0.917	0.889	----	----	----	----	----	----	----	0.889
954	0.818	562.33	0.905	0.877	----	----	----	----	----	----	----	0.877
957	0.806	562.33	0.894	0.866	----	----	----	----	----	----	----	0.866
960	0.795	562.32	0.882	0.854	----	----	----	----	----	----	----	0.854
963	0.784	562.32	0.871	0.842	----	----	----	----	----	----	----	0.842
966	0.775	562.32	0.860	0.831	----	----	----	----	----	----	----	0.831
969	0.769	562.31	0.849	0.820	----	----	----	----	----	----	----	0.820
972	0.764	562.31	0.840	0.810	----	----	----	----	----	----	----	0.810
975	0.760	562.31	0.831	0.802	----	----	----	----	----	----	----	0.802
978	0.756	562.31	0.823	0.794	----	----	----	----	----	----	----	0.794
981	0.752	562.30	0.816	0.787	----	----	----	----	----	----	----	0.786
984	0.748	562.30	0.810	0.780	----	----	----	----	----	----	----	0.780
987	0.743	562.30	0.804	0.774	----	----	----	----	----	----	----	0.774

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Hydrograph Discharge Table

Time (min)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	PfRsr cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	Outflow cfs
990	0.739	562.30	0.798	0.769	----	----	----	----	----	----	----	0.769
993	0.735	562.30	0.793	0.764	----	----	----	----	----	----	----	0.764
998	0.731	562.29	0.788	0.760	----	----	----	----	----	----	----	0.759
999	0.727	562.29	0.783	0.755	----	----	----	----	----	----	----	0.755
1002	0.723	562.29	0.777	0.750	----	----	----	----	----	----	----	0.750
1005	0.718	562.29	0.773	0.746	----	----	----	----	----	----	----	0.746
1008	0.714	562.29	0.768	0.741	----	----	----	----	----	----	----	0.741
1011	0.710	562.29	0.763	0.737	----	----	----	----	----	----	----	0.737
1014	0.706	562.28	0.758	0.733	----	----	----	----	----	----	----	0.733
1017	0.702	562.28	0.753	0.728	----	----	----	----	----	----	----	0.728
1020	0.698	562.28	0.748	0.724	----	----	----	----	----	----	----	0.724
1023	0.693	562.28	0.743	0.720	----	----	----	----	----	----	----	0.720
1026	0.689	562.28	0.739	0.715	----	----	----	----	----	----	----	0.715
1029	0.685	562.28	0.734	0.711	----	----	----	----	----	----	----	0.711
1032	0.681	562.27	0.729	0.707	----	----	----	----	----	----	----	0.707
1035	0.677	562.27	0.724	0.703	----	----	----	----	----	----	----	0.703
1038	0.673	562.27	0.720	0.698	----	----	----	----	----	----	----	0.698
1041	0.668	562.27	0.715	0.694	----	----	----	----	----	----	----	0.694
1044	0.664	562.27	0.710	0.690	----	----	----	----	----	----	----	0.690
1047	0.660	562.27	0.706	0.686	----	----	----	----	----	----	----	0.686
1050	0.656	562.27	0.701	0.682	----	----	----	----	----	----	----	0.682
1053	0.652	562.26	0.696	0.677	----	----	----	----	----	----	----	0.677
1056	0.648	562.26	0.692	0.673	----	----	----	----	----	----	----	0.673
1059	0.643	562.26	0.687	0.669	----	----	----	----	----	----	----	0.669
1062	0.639	562.26	0.682	0.665	----	----	----	----	----	----	----	0.665
1065	0.635	562.26	0.678	0.661	----	----	----	----	----	----	----	0.661
1068	0.631	562.26	0.673	0.656	----	----	----	----	----	----	----	0.656
1071	0.627	562.25	0.668	0.652	----	----	----	----	----	----	----	0.652
1074	0.622	562.25	0.664	0.648	----	----	----	----	----	----	----	0.648
1077	0.618	562.25	0.659	0.644	----	----	----	----	----	----	----	0.644
1080	0.614	562.25	0.655	0.640	----	----	----	----	----	----	----	0.640
1083	0.610	562.25	0.650	0.635	----	----	----	----	----	----	----	0.635
1086	0.606	562.25	0.645	0.631	----	----	----	----	----	----	----	0.631
1089	0.602	562.24	0.641	0.627	----	----	----	----	----	----	----	0.627
1092	0.597	562.24	0.636	0.623	----	----	----	----	----	----	----	0.623
1095	0.593	562.24	0.631	0.619	----	----	----	----	----	----	----	0.619
1098	0.589	562.24	0.627	0.615	----	----	----	----	----	----	----	0.615
1101	0.585	562.24	0.622	0.610	----	----	----	----	----	----	----	0.610
1104	0.581	562.24	0.617	0.606	----	----	----	----	----	----	----	0.606
1107	0.576	562.24	0.613	0.602	----	----	----	----	----	----	----	0.602
1110	0.572	562.23	0.608	0.598	----	----	----	----	----	----	----	0.598
1113	0.568	562.23	0.603	0.594	----	----	----	----	----	----	----	0.594
1116	0.564	562.23	0.599	0.589	----	----	----	----	----	----	----	0.589
1119	0.560	562.23	0.594	0.585	----	----	----	----	----	----	----	0.585
1122	0.555	562.23	0.589	0.581	----	----	----	----	----	----	----	0.581
1125	0.551	562.23	0.585	0.577	----	----	----	----	----	----	----	0.577
1128	0.547	562.22	0.580	0.573	----	----	----	----	----	----	----	0.573
1131	0.543	562.22	0.575	0.568	----	----	----	----	----	----	----	0.568
1134	0.539	562.22	0.571	0.564	----	----	----	----	----	----	----	0.564
1137	0.534	562.22	0.566	0.560	----	----	----	----	----	----	----	0.560
1140	0.530	562.22	0.562	0.556	----	----	----	----	----	----	----	0.556
1143	0.526	562.22	0.557	0.552	----	----	----	----	----	----	----	0.552
1146	0.522	562.22	0.552	0.547	----	----	----	----	----	----	----	0.548
1149	0.518	562.21	0.548	0.543	----	----	----	----	----	----	----	0.543

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Hydrograph Discharge Table

Time (min)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	PfRsr cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	Outflow cfs
1152	0.513	562.21	0.543	0.539	----	----	----	----	----	----	----	0.539
1155	0.509	562.21	0.538	0.535	----	----	----	----	----	----	----	0.535
1158	0.505	562.21	0.534	0.531	----	----	----	----	----	----	----	0.531
1161	0.501	562.21	0.529	0.526	----	----	----	----	----	----	----	0.527
1164	0.497	562.21	0.524	0.522	----	----	----	----	----	----	----	0.522
1167	0.492	562.20	0.520	0.518	----	----	----	----	----	----	----	0.518
1170	0.488	562.20	0.515	0.514	----	----	----	----	----	----	----	0.514
1173	0.484	562.20	0.510	0.510	----	----	----	----	----	----	----	0.510
1176	0.480	562.20	0.506	0.505	----	----	----	----	----	----	----	0.506
1179	0.476	562.20	0.502	0.502	----	----	----	----	----	----	----	0.502
1182	0.472	562.20	0.499	0.498	----	----	----	----	----	----	----	0.498
1185	0.467	562.20	0.495	0.495	----	----	----	----	----	----	----	0.495
1188	0.463	562.19	0.492	0.491	----	----	----	----	----	----	----	0.491
1191	0.459	562.19	0.488	0.487	----	----	----	----	----	----	----	0.487
1194	0.455	562.19	0.484	0.483	----	----	----	----	----	----	----	0.483
1197	0.451	562.19	0.481	0.479	----	----	----	----	----	----	----	0.479
1200	0.446	562.19	0.477	0.475	----	----	----	----	----	----	----	0.475
1203	0.442	562.18	0.473	0.471	----	----	----	----	----	----	----	0.471
1206	0.440	562.18	0.469	0.468	----	----	----	----	----	----	----	0.468
1209	0.438	562.18	0.466	0.464	----	----	----	----	----	----	----	0.464
1212	0.437	562.18	0.463	0.461	----	----	----	----	----	----	----	0.460
1215	0.436	562.18	0.460	0.457	----	----	----	----	----	----	----	0.457
1218	0.435	562.18	0.457	0.455	----	----	----	----	----	----	----	0.455
1221	0.434	562.18	0.454	0.452	----	----	----	----	----	----	----	0.452
1224	0.433	562.18	0.452	0.450	----	----	----	----	----	----	----	0.450
1227	0.433	562.17	0.450	0.448	----	----	----	----	----	----	----	0.448
1230	0.432	562.17	0.448	0.446	----	----	----	----	----	----	----	0.446
1233	0.431	562.17	0.447	0.444	----	----	----	----	----	----	----	0.444
1236	0.430	562.17	0.445	0.442	----	----	----	----	----	----	----	0.442
1239	0.429	562.17	0.444	0.441	----	----	----	----	----	----	----	0.441
1242	0.428	562.17	0.442	0.439	----	----	----	----	----	----	----	0.439
1245	0.428	562.17	0.441	0.438	----	----	----	----	----	----	----	0.438
1248	0.427	562.17	0.440	0.436	----	----	----	----	----	----	----	0.436
1251	0.426	562.17	0.438	0.435	----	----	----	----	----	----	----	0.435
1254	0.425	562.17	0.437	0.434	----	----	----	----	----	----	----	0.434
1257	0.424	562.17	0.436	0.433	----	----	----	----	----	----	----	0.433
1260	0.423	562.17	0.435	0.432	----	----	----	----	----	----	----	0.432
1263	0.423	562.17	0.434	0.430	----	----	----	----	----	----	----	0.430
1266	0.422	562.17	0.433	0.429	----	----	----	----	----	----	----	0.429
1269	0.421	562.17	0.432	0.428	----	----	----	----	----	----	----	0.428
1272	0.420	562.17	0.431	0.427	----	----	----	----	----	----	----	0.427
1275	0.419	562.16	0.430	0.426	----	----	----	----	----	----	----	0.426
1278	0.418	562.16	0.429	0.425	----	----	----	----	----	----	----	0.425
1281	0.418	562.16	0.428	0.425	----	----	----	----	----	----	----	0.425
1284	0.417	562.16	0.427	0.424	----	----	----	----	----	----	----	0.424
1287	0.416	562.16	0.426	0.423	----	----	----	----	----	----	----	0.423
1290	0.415	562.16	0.426	0.422	----	----	----	----	----	----	----	0.422
1293	0.414	562.16	0.425	0.421	----	----	----	----	----	----	----	0.421
1296	0.413	562.16	0.424	0.420	----	----	----	----	----	----	----	0.420
1299	0.413	562.16	0.423	0.419	----	----	----	----	----	----	----	0.419
1302	0.412	562.16	0.422	0.418	----	----	----	----	----	----	----	0.418
1305	0.411	562.16	0.421	0.417	----	----	----	----	----	----	----	0.417
1308	0.410	562.16	0.420	0.416	----	----	----	----	----	----	----	0.416
1311	0.409	562.16	0.420	0.416	----	----	----	----	----	----	----	0.416

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Hydrograph Discharge Table

Time (min)	Inflow cfs	Elevation ft	Civ A cfs	Civ B cfs	Civ C cfs	PfRsr cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	Outflow cfs
1314	0.408	562.16	0.419	0.415	----	----	----	----	----	----	----	0.415
1317	0.408	562.16	0.418	0.414	----	----	----	----	----	----	----	0.414
1320	0.407	562.16	0.417	0.413	----	----	----	----	----	----	----	0.413
1323	0.406	562.16	0.416	0.412	----	----	----	----	----	----	----	0.412
1326	0.405	562.16	0.416	0.411	----	----	----	----	----	----	----	0.411
1329	0.404	562.16	0.415	0.411	----	----	----	----	----	----	----	0.411
1332	0.403	562.16	0.414	0.410	----	----	----	----	----	----	----	0.410
1335	0.403	562.16	0.413	0.409	----	----	----	----	----	----	----	0.409
1338	0.402	562.16	0.412	0.408	----	----	----	----	----	----	----	0.408
1341	0.401	562.16	0.412	0.407	----	----	----	----	----	----	----	0.407
1344	0.400	562.16	0.411	0.406	----	----	----	----	----	----	----	0.406
1347	0.399	562.16	0.410	0.405	----	----	----	----	----	----	----	0.405
1350	0.398	562.16	0.409	0.405	----	----	----	----	----	----	----	0.405
1353	0.398	562.15	0.408	0.404	----	----	----	----	----	----	----	0.404
1356	0.397	562.15	0.408	0.403	----	----	----	----	----	----	----	0.403
1359	0.396	562.15	0.407	0.402	----	----	----	----	----	----	----	0.402
1362	0.395	562.15	0.406	0.401	----	----	----	----	----	----	----	0.401
1365	0.394	562.15	0.405	0.400	----	----	----	----	----	----	----	0.400
1368	0.393	562.15	0.404	0.400	----	----	----	----	----	----	----	0.400
1371	0.393	562.15	0.404	0.399	----	----	----	----	----	----	----	0.399
1374	0.392	562.15	0.403	0.398	----	----	----	----	----	----	----	0.398
1377	0.391	562.15	0.402	0.397	----	----	----	----	----	----	----	0.397
1380	0.390	562.15	0.401	0.396	----	----	----	----	----	----	----	0.396
1383	0.389	562.15	0.400	0.395	----	----	----	----	----	----	----	0.395
1386	0.388	562.15	0.400	0.395	----	----	----	----	----	----	----	0.395
1389	0.388	562.15	0.399	0.394	----	----	----	----	----	----	----	0.394
1392	0.387	562.15	0.398	0.393	----	----	----	----	----	----	----	0.393
1395	0.386	562.15	0.397	0.392	----	----	----	----	----	----	----	0.392
1398	0.385	562.15	0.396	0.391	----	----	----	----	----	----	----	0.391
1401	0.384	562.15	0.396	0.390	----	----	----	----	----	----	----	0.390
1404	0.383	562.15	0.395	0.390	----	----	----	----	----	----	----	0.390
1407	0.383	562.15	0.394	0.389	----	----	----	----	----	----	----	0.389
1410	0.382	562.15	0.393	0.388	----	----	----	----	----	----	----	0.388
1413	0.381	562.15	0.392	0.387	----	----	----	----	----	----	----	0.387
1416	0.380	562.15	0.392	0.386	----	----	----	----	----	----	----	0.386
1419	0.379	562.15	0.391	0.385	----	----	----	----	----	----	----	0.385
1422	0.378	562.15	0.390	0.385	----	----	----	----	----	----	----	0.385
1425	0.378	562.15	0.389	0.384	----	----	----	----	----	----	----	0.384
1428	0.377	562.15	0.388	0.383	----	----	----	----	----	----	----	0.383
1431	0.376	562.15	0.388	0.382	----	----	----	----	----	----	----	0.382
1434	0.375	562.14	0.387	0.381	----	----	----	----	----	----	----	0.381
1437	0.374	562.14	0.386	0.380	----	----	----	----	----	----	----	0.380
1440	0.373	562.14	0.385	0.379	----	----	----	----	----	----	----	0.380
1443	0.298	562.14	0.380	0.374	----	----	----	----	----	----	----	0.374
1446	0.149	562.13	0.362	0.356	----	----	----	----	----	----	----	0.356
1449	0.050	562.12	0.330	0.322	----	----	----	----	----	----	----	0.322
1452	0.000	562.10	0.294	0.284	----	----	----	----	----	----	----	0.284
1455	0.000	562.09	0.267	0.257	----	----	----	----	----	----	----	0.257
1458	0.000	562.07	0.244	0.233	----	----	----	----	----	----	----	0.233

...End

Hydrograph Summary Report

Hydroflow Hydrographs by Intelsolve v9.2

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph description	
1	SCS Runoff	24.75	3	720	67,088	---	-----	-----	Existing to NW (Mason Report)	
2	SCS Runoff	40.54	3	717	101,615	---	-----	-----	Proposed (Mason Report)	
3	SCS Runoff	44.25	3	717	107,193	---	-----	-----	Proposed to Revise Basin	
4	Reservoir	23.07	3	723	107,187	3	555.66	28,027	Pr thru Rev Basin	
					Return Period: 25 Year		Friday, Sep 9, 2016			
11-1230-HQ-SCS-09-09-16.gpw										

Hydrograph Report

Hydraflow Hydrographs by IntelliSolve v9.2

Friday, Sep 9, 2016

Hyd. No. 1

Existing to NW (Mason Report)

Hydrograph type	= SCS Runoff	Peak discharge	= 24.75 cfs
Storm frequency	= 25 yrs	Time to peak	= 720 min
Time interval	= 3 min	Hyd. volume	= 97,684 cuft
Drainage area	= 5.870 ac	Curve number	= 79
Basin Slope	= 2.7 %	Hydraulic length	= 808 ft
Tc method	= USER	Time of conc. (Tc)	= 14.0 min
Total precip.	= 5.40 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

Hydrograph Discharge Table

(Printed values are 100% of Q₂)

Time (min)	Outflow (cfs)	Time (min)	Outflow (cfs)	Time (min)	Outflow (cfs)	Time (min)	Outflow (cfs)
588	0.254	699	2.872	810	1.360	921	0.775
591	0.265	702	4.170	813	1.325	924	0.765
594	0.277	705	5.928	816	1.291	927	0.756
597	0.288	708	8.294	819	1.258	930	0.747
600	0.301	711	11.63	822	1.229	933	0.738
603	0.313	714	16.36	825	1.201	936	0.729
606	0.327	717	21.56	828	1.174	939	0.720
609	0.341	720	24.75 <<	831	1.148	942	0.710
612	0.357	723	24.03	834	1.122	945	0.701
615	0.374	726	19.90	837	1.096	948	0.692
618	0.391	729	14.83	840	1.070	951	0.683
621	0.410	732	10.32	843	1.045	954	0.673
624	0.429	735	6.793	846	1.022	957	0.664
627	0.448	738	4.735	849	1.003	960	0.655
630	0.468	741	4.002	852	0.987	963	0.646
633	0.489	744	3.723	855	0.974	966	0.637
636	0.512	747	3.443	858	0.964	969	0.630
639	0.537	750	3.160	861	0.954	972	0.625
642	0.565	753	2.885	864	0.946	975	0.620
645	0.595	756	2.635	867	0.937	978	0.616
648	0.627	759	2.432	870	0.928	981	0.613
651	0.660	762	2.278	873	0.919	984	0.610
654	0.695	765	2.163	876	0.910	987	0.607
657	0.731	768	2.078	879	0.901	990	0.603
660	0.768	771	2.006	882	0.892	993	0.600
663	0.808	774	1.941	885	0.883	996	0.597
666	0.853	777	1.876	888	0.874	999	0.594
669	0.907	780	1.811	891	0.865	1002	0.590
672	0.970	783	1.746	894	0.856	1005	0.587
675	1.043	786	1.686	897	0.847	1008	0.584
678	1.122	789	1.631	900	0.838	1011	0.581
681	1.207	792	1.584	903	0.829	1014	0.577
684	1.297	795	1.542	906	0.820	1017	0.574
687	1.389	798	1.503	909	0.811	1020	0.571
690	1.485	801	1.467	912	0.802	1023	0.568
693	1.658	804	1.431	915	0.793	1026	0.564
696	2.082	807	1.396	918	0.784	1029	0.561

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Hydrograph Discharge Table

Time -- Outflow (min cfs)	Time -- Outflow (min cfs)	Time -- Outflow (min cfs)			
1032	0.558	1194	0.377	1356	0.328
1035	0.555	1197	0.374	1359	0.328
1038	0.551	1200	0.371	1362	0.327
1041	0.548	1203	0.367	1365	0.326
1044	0.545	1208	0.364	1368	0.326
1047	0.542	1209	0.362	1371	0.325
1050	0.538	1212	0.360	1374	0.324
1053	0.535	1215	0.359	1377	0.324
1056	0.532	1218	0.358	1380	0.323
1059	0.528	1221	0.357	1383	0.322
1062	0.525	1224	0.357	1386	0.322
1065	0.522	1227	0.356	1389	0.321
1068	0.518	1230	0.356	1392	0.320
1071	0.515	1233	0.355	1395	0.320
1074	0.512	1236	0.354	1398	0.319
1077	0.509	1239	0.354	1401	0.318
1080	0.505	1242	0.353	1404	0.318
1083	0.502	1245	0.352	1407	0.317
1086	0.499	1248	0.352	1410	0.316
1089	0.495	1251	0.351	1413	0.316
1092	0.492	1254	0.350	1416	0.315
1095	0.489	1257	0.350	1419	0.314
1098	0.485	1260	0.349	1422	0.314
1101	0.482	1263	0.348	1425	0.313
1104	0.479	1266	0.348	1428	0.312
1107	0.475	1269	0.347	1431	0.312
1110	0.472	1272	0.347	1434	0.311
1113	0.469	1275	0.346	1437	0.311
1116	0.465	1278	0.345	1440	0.310
1119	0.462	1281	0.345	1443	0.284
1122	0.459	1284	0.344		
1125	0.455	1287	0.343	...End	
1128	0.452	1290	0.343		
1131	0.448	1293	0.342		
1134	0.445	1296	0.341		
1137	0.442	1299	0.341		
1140	0.438	1302	0.340		
1143	0.435	1305	0.339		
1146	0.432	1308	0.339		
1149	0.428	1311	0.338		
1152	0.425	1314	0.337		
1155	0.422	1317	0.337		
1158	0.418	1320	0.336		
1161	0.415	1323	0.336		
1164	0.411	1326	0.335		
1167	0.408	1329	0.334		
1170	0.405	1332	0.334		
1173	0.401	1335	0.333		
1176	0.398	1338	0.332		
1179	0.394	1341	0.332		
1182	0.391	1344	0.331		
1185	0.388	1347	0.330		
1188	0.384	1350	0.330		
1191	0.381	1353	0.329		

Hydrograph Report

Hydraflow Hydrographs by Intelliolve v9.2

Friday, Sep 9, 2016

Hyd. No. 2

Proposed (Mason Report)

Hydrograph type	= SCS Runoff	Peak discharge	= 40.54 cfs
Storm frequency	= 25 yrs	Time to peak	= 717 min
Time interval	= 3 min	Hyd. volume	= 135,157 cuft
Drainage area	= 6.200 ac	Curve number	= 95
Basin Slope	= 2.7 %	Hydraulic length	= 808 ft
Tc method	= USER	Time of conc. (Tc)	= 6.0 min
Total precip.	= 5.40 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

Hydrograph Discharge Table

(Printed values are 1.00% of Qd.)

Time (min)	Outflow (cfs)	Time (min)	Outflow (cfs)	Time (min)	Outflow (cfs)	Time (min)	Outflow (cfs)
402	0.407	513	0.659	624	1.308	735	5.135
405	0.411	516	0.673	627	1.345	738	4.782
408	0.415	519	0.688	630	1.381	741	4.428
411	0.420	522	0.703	633	1.421	744	4.074
414	0.424	525	0.718	636	1.467	747	3.719
417	0.429	528	0.733	639	1.520	750	3.365
420	0.433	531	0.748	642	1.579	753	3.037
423	0.437	534	0.764	645	1.639	756	2.792
426	0.442	537	0.779	648	1.699	759	2.638
429	0.446	540	0.794	651	1.760	762	2.539
432	0.450	543	0.808	654	1.821	765	2.458
435	0.455	546	0.819	657	1.883	768	2.377
438	0.459	549	0.825	660	1.944	771	2.296
441	0.464	552	0.828	663	2.014	774	2.216
444	0.468	555	0.831	666	2.108	777	2.135
447	0.472	558	0.833	669	2.230	780	2.054
450	0.477	561	0.836	672	2.368	783	1.976
453	0.481	564	0.838	675	2.513	786	1.910
456	0.485	567	0.841	678	2.658	789	1.857
459	0.490	570	0.843	681	2.804	792	1.811
462	0.494	573	0.847	684	2.951	795	1.767
465	0.498	576	0.858	687	3.099	798	1.724
468	0.502	579	0.876	690	3.247	801	1.680
471	0.507	582	0.898	693	3.732	804	1.636
474	0.511	585	0.922	696	5.226	807	1.593
477	0.515	588	0.946	699	7.855	810	1.549
480	0.520	591	0.970	702	11.19	813	1.507
483	0.525	594	0.994	705	14.80	816	1.468
486	0.533	597	1.018	708	19.10	819	1.434
489	0.544	600	1.042	711	25.39	822	1.402
492	0.558	603	1.067	714	33.94	825	1.370
495	0.572	606	1.096	717	40.54 <<	828	1.339
498	0.586	609	1.129	720	37.56	831	1.308
501	0.600	612	1.164	723	25.66	834	1.277
504	0.615	615	1.200	726	13.85	837	1.246
507	0.629	618	1.236	729	7.388	840	1.214
510	0.644	621	1.272	732	5.497	843	1.185

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Hydrograph Discharge Table

Time -- Outflow (min cfs)	Time -- Outflow (min cfs)	Time -- Outflow (min cfs)			
846	1.162	1008	0.665	1170	0.454
849	1.146	1011	0.661	1173	0.450
852	1.134	1014	0.657	1176	0.446
855	1.123	1017	0.653	1179	0.442
858	1.112	1020	0.650	1182	0.438
861	1.101	1023	0.646	1185	0.435
864	1.090	1026	0.642	1188	0.431
867	1.079	1029	0.638	1191	0.427
870	1.068	1032	0.634	1194	0.423
873	1.057	1035	0.630	1197	0.419
876	1.046	1038	0.626	1200	0.415
879	1.036	1041	0.622	1203	0.411
882	1.025	1044	0.618	1206	0.409
885	1.014	1047	0.614	1209	0.407
888	1.003	1050	0.610	1212	0.406
891	0.992	1053	0.607		
894	0.981	1056	0.603	...End	
897	0.970	1059	0.599		
900	0.959	1062	0.595		
903	0.948	1065	0.591		
906	0.937	1068	0.587		
909	0.926	1071	0.583		
912	0.915	1074	0.579		
915	0.904	1077	0.575		
918	0.894	1080	0.571		
921	0.883	1083	0.568		
924	0.872	1086	0.564		
927	0.861	1089	0.560		
930	0.850	1092	0.556		
933	0.839	1095	0.552		
936	0.828	1098	0.548		
939	0.817	1101	0.544		
942	0.806	1104	0.540		
945	0.795	1107	0.536		
948	0.784	1110	0.532		
951	0.773	1113	0.528		
954	0.762	1116	0.525		
957	0.751	1119	0.521		
960	0.740	1122	0.517		
963	0.730	1125	0.513		
966	0.722	1128	0.509		
969	0.716	1131	0.505		
972	0.712	1134	0.501		
975	0.708	1137	0.497		
978	0.704	1140	0.493		
981	0.700	1143	0.489		
984	0.696	1146	0.485		
987	0.692	1149	0.481		
990	0.689	1152	0.478		
993	0.685	1155	0.474		
996	0.681	1158	0.470		
999	0.677	1161	0.466		
1002	0.673	1164	0.462		
1005	0.669	1167	0.458		

Hydrograph Report

Hydraflow Hydrographs by Intelisolve v9.2

Friday, Sep 9, 2016

Hyd. No. 3

Proposed to Revise Basin

Hydrograph type	= SCS Runoff	Peak discharge	= 44.25 cfs
Storm frequency	= 25 yrs	Time to peak	= 717 min
Time interval	= 3 min	Hyd. volume	= 144,854 cuft
Drainage area	= 7.030 ac	Curve number	= 92*
Basin Slope	= 2.7 %	Hydraulic length	= 808 ft
Tc method	= USER	Time of conc. (Tc)	= 6.0 min
Total precip.	= 5.40 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

* Composite (Area/CN) = [(1.210 x 74) + (1.430 x 89) + (4.390 x 98)] / 7.030

(Printed values >= 1.00% of Qp)

Hydrograph Discharge Table

Time -- Outflow	Time -- Outflow	Time -- Outflow	Time -- Outflow
(min cfs)	(min cfs)	(min cfs)	(min cfs)
477 0.445	588 0.900	699 8.189	810 1.725
480 0.450	591 0.925	702 11.75	813 1.678
483 0.456	594 0.950	705 15.65	816 1.635
486 0.464	597 0.975	708 20.35	819 1.596
489 0.475	600 1.001	711 27.29	822 1.561
492 0.488	603 1.027	714 36.79	825 1.526
495 0.502	606 1.057	717 44.25 <<	828 1.492
498 0.516	609 1.091	720 41.21	831 1.457
501 0.530	612 1.128	723 28.24	834 1.422
504 0.544	615 1.165	726 15.29	837 1.388
507 0.559	618 1.203	729 8.174	840 1.353
510 0.573	621 1.241	732 6.088	843 1.321
513 0.588	624 1.279	735 5.689	846 1.295
516 0.603	627 1.318	738 5.300	849 1.277
519 0.618	630 1.357	741 4.910	852 1.263
522 0.633	633 1.399	744 4.519	855 1.251
525 0.648	636 1.447	747 4.127	858 1.239
528 0.664	639 1.504	750 3.734	861 1.227
531 0.680	642 1.565	753 3.372	864 1.215
534 0.695	645 1.628	756 3.100	867 1.203
537 0.711	648 1.692	759 2.930	870 1.191
540 0.727	651 1.757	762 2.821	873 1.179
543 0.742	654 1.822	765 2.731	876 1.167
546 0.754	657 1.888	768 2.642	879 1.155
549 0.761	660 1.955	771 2.552	882 1.143
552 0.767	663 2.030	774 2.463	885 1.130
555 0.771	666 2.130	777 2.373	888 1.118
558 0.775	669 2.258	780 2.284	891 1.106
561 0.779	672 2.404	783 2.198	894 1.094
564 0.783	675 2.557	786 2.125	897 1.082
567 0.788	678 2.712	789 2.066	900 1.070
570 0.792	681 2.869	792 2.015	903 1.058
573 0.797	684 3.027	795 1.966	906 1.046
576 0.809	687 3.187	798 1.918	909 1.033
579 0.828	690 3.348	801 1.870	912 1.021
582 0.851	693 3.660	804 1.821	915 1.009
585 0.875	696 5.427	807 1.773	918 0.997

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Hydrograph Discharge Table

Time -- Outflow (min cfs)	Time -- Outflow (min cfs)	Time -- Outflow (min cfs)			
921	0.985	1083	0.634	1245	0.445
924	0.973	1086	0.630	1248	0.444
927	0.961	1089	0.626	1251	0.443
930	0.948	1092	0.621		
933	0.936	1095	0.617	...End	
936	0.924	1098	0.613		
939	0.912	1101	0.608		
942	0.900	1104	0.604		
945	0.888	1107	0.600		
948	0.875	1110	0.595		
951	0.863	1113	0.591		
954	0.851	1116	0.586		
957	0.839	1119	0.582		
960	0.827	1122	0.578		
963	0.815	1125	0.573		
966	0.806	1128	0.569		
969	0.800	1131	0.565		
972	0.795	1134	0.560		
975	0.791	1137	0.556		
978	0.786	1140	0.552		
981	0.782	1143	0.547		
984	0.778	1146	0.543		
987	0.773	1149	0.538		
990	0.769	1152	0.534		
993	0.765	1155	0.530		
996	0.760	1158	0.525		
999	0.756	1161	0.521		
1002	0.752	1164	0.517		
1005	0.747	1167	0.512		
1008	0.743	1170	0.508		
1011	0.739	1173	0.504		
1014	0.734	1176	0.499		
1017	0.730	1179	0.495		
1020	0.726	1182	0.490		
1023	0.721	1185	0.486		
1026	0.717	1188	0.482		
1029	0.713	1191	0.477		
1032	0.708	1194	0.473		
1035	0.704	1197	0.469		
1038	0.700	1200	0.464		
1041	0.695	1203	0.460		
1044	0.691	1206	0.457		
1047	0.687	1209	0.455		
1050	0.682	1212	0.454		
1053	0.678	1215	0.453		
1056	0.674	1218	0.453		
1059	0.669	1221	0.452		
1062	0.665	1224	0.451		
1065	0.660	1227	0.450		
1068	0.656	1230	0.449		
1071	0.652	1233	0.448		
1074	0.647	1236	0.447		
1077	0.643	1239	0.447		
1080	0.639	1242	0.446		

Hydrograph Report

Hydraflow Hydrographs by Intellisolve v9.2

Friday, Sep 9, 2016

Hyd. No. 4

Pr thru Rev Basin

Hydrograph type	= Reservoir	Peak discharge	= 23.07 cfs
Storm frequency	= 25 yrs	Time to peak	= 723 min
Time interval	= 3 min	Hyd. volume	= 144,860 cuft
Inflow hyd. No.	= 3 - Proposed to Revise Basin	Reservoir name	= Revised Basin
Max. Elevation	= 565.66 ft	Max. Storage	= 29,027 cuft

Storage Indication method used:

(Prints values @= 1.00% of On)

Hydrograph Discharge Table

Time (min)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	PfRsr cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	Outflow cfs
375	0.277	562.07	0.242	0.231	-----	-----	-----	-----	-----	-----	-----	0.231
378	0.282	562.07	0.246	0.235	-----	-----	-----	-----	-----	-----	-----	0.235
381	0.287	562.08	0.251	0.240	-----	-----	-----	-----	-----	-----	-----	0.240
384	0.291	562.08	0.255	0.245	-----	-----	-----	-----	-----	-----	-----	0.245
387	0.296	562.08	0.260	0.249	-----	-----	-----	-----	-----	-----	-----	0.249
390	0.301	562.08	0.264	0.254	-----	-----	-----	-----	-----	-----	-----	0.254
393	0.306	562.09	0.269	0.258	-----	-----	-----	-----	-----	-----	-----	0.258
396	0.311	562.09	0.274	0.263	-----	-----	-----	-----	-----	-----	-----	0.263
399	0.316	562.09	0.278	0.268	-----	-----	-----	-----	-----	-----	-----	0.268
402	0.321	562.10	0.283	0.273	-----	-----	-----	-----	-----	-----	-----	0.272
405	0.326	562.10	0.287	0.277	-----	-----	-----	-----	-----	-----	-----	0.277
408	0.330	562.10	0.293	0.283	-----	-----	-----	-----	-----	-----	-----	0.283
411	0.335	562.10	0.299	0.289	-----	-----	-----	-----	-----	-----	-----	0.289
414	0.340	562.11	0.305	0.295	-----	-----	-----	-----	-----	-----	-----	0.295
417	0.345	562.11	0.310	0.301	-----	-----	-----	-----	-----	-----	-----	0.301
420	0.350	562.11	0.316	0.307	-----	-----	-----	-----	-----	-----	-----	0.307
423	0.355	562.11	0.322	0.313	-----	-----	-----	-----	-----	-----	-----	0.313
426	0.360	562.12	0.327	0.319	-----	-----	-----	-----	-----	-----	-----	0.319
429	0.365	562.12	0.332	0.324	-----	-----	-----	-----	-----	-----	-----	0.324
432	0.370	562.12	0.338	0.330	-----	-----	-----	-----	-----	-----	-----	0.330
435	0.375	562.12	0.343	0.335	-----	-----	-----	-----	-----	-----	-----	0.335
438	0.380	562.13	0.348	0.340	-----	-----	-----	-----	-----	-----	-----	0.341
441	0.385	562.13	0.353	0.346	-----	-----	-----	-----	-----	-----	-----	0.346
444	0.390	562.13	0.358	0.351	-----	-----	-----	-----	-----	-----	-----	0.351
447	0.395	562.13	0.363	0.356	-----	-----	-----	-----	-----	-----	-----	0.356
450	0.400	562.14	0.368	0.361	-----	-----	-----	-----	-----	-----	-----	0.362
453	0.405	562.14	0.373	0.367	-----	-----	-----	-----	-----	-----	-----	0.367
456	0.410	562.14	0.378	0.372	-----	-----	-----	-----	-----	-----	-----	0.372
459	0.415	562.14	0.383	0.377	-----	-----	-----	-----	-----	-----	-----	0.377
462	0.420	562.15	0.388	0.382	-----	-----	-----	-----	-----	-----	-----	0.382
465	0.425	562.15	0.393	0.387	-----	-----	-----	-----	-----	-----	-----	0.387
468	0.430	562.15	0.397	0.392	-----	-----	-----	-----	-----	-----	-----	0.392
471	0.435	562.15	0.402	0.397	-----	-----	-----	-----	-----	-----	-----	0.397
474	0.440	562.15	0.407	0.402	-----	-----	-----	-----	-----	-----	-----	0.402
477	0.445	562.16	0.412	0.408	-----	-----	-----	-----	-----	-----	-----	0.408
480	0.450	562.16	0.417	0.413	-----	-----	-----	-----	-----	-----	-----	0.413
483	0.456	562.16	0.422	0.418	-----	-----	-----	-----	-----	-----	-----	0.418
486	0.464	562.16	0.427	0.423	-----	-----	-----	-----	-----	-----	-----	0.423
489	0.475	562.17	0.432	0.429	-----	-----	-----	-----	-----	-----	-----	0.429
492	0.488	562.17	0.439	0.436	-----	-----	-----	-----	-----	-----	-----	0.436
495	0.502	562.17	0.446	0.443	-----	-----	-----	-----	-----	-----	-----	0.443

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Hydrograph Discharge Table

Time (min)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	PfRsr cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	Outflow cfs
498	0.516	562.18	0.454	0.452	----	----	----	----	----	----	----	0.452
501	0.530	562.18	0.463	0.461	----	----	----	----	----	----	----	0.461
504	0.544	562.18	0.472	0.470	----	----	----	----	----	----	----	0.470
507	0.559	562.19	0.482	0.481	----	----	----	----	----	----	----	0.481
510	0.573	562.19	0.492	0.492	----	----	----	----	----	----	----	0.492
513	0.588	562.20	0.503	0.503	----	----	----	----	----	----	----	0.503
516	0.603	562.20	0.518	0.517	----	----	----	----	----	----	----	0.517
519	0.618	562.21	0.534	0.531	----	----	----	----	----	----	----	0.531
522	0.633	562.21	0.550	0.545	----	----	----	----	----	----	----	0.545
525	0.648	562.22	0.566	0.560	----	----	----	----	----	----	----	0.560
528	0.664	562.23	0.582	0.574	----	----	----	----	----	----	----	0.574
531	0.680	562.23	0.598	0.589	----	----	----	----	----	----	----	0.589
534	0.695	562.24	0.615	0.604	----	----	----	----	----	----	----	0.604
537	0.711	562.24	0.631	0.619	----	----	----	----	----	----	----	0.619
540	0.727	562.25	0.648	0.634	----	----	----	----	----	----	----	0.634
543	0.742	562.25	0.665	0.649	----	----	----	----	----	----	----	0.649
546	0.754	562.26	0.682	0.664	----	----	----	----	----	----	----	0.664
549	0.761	562.26	0.697	0.678	----	----	----	----	----	----	----	0.678
552	0.767	562.27	0.712	0.691	----	----	----	----	----	----	----	0.691
555	0.771	562.27	0.725	0.703	----	----	----	----	----	----	----	0.703
558	0.775	562.28	0.737	0.714	----	----	----	----	----	----	----	0.714
581	0.779	562.28	0.747	0.723	----	----	----	----	----	----	----	0.723
584	0.783	562.28	0.757	0.732	----	----	----	----	----	----	----	0.732
587	0.788	562.29	0.766	0.740	----	----	----	----	----	----	----	0.740
570	0.792	562.29	0.775	0.748	----	----	----	----	----	----	----	0.748
573	0.797	562.29	0.782	0.755	----	----	----	----	----	----	----	0.755
576	0.809	562.29	0.790	0.762	----	----	----	----	----	----	----	0.762
579	0.828	562.30	0.800	0.771	----	----	----	----	----	----	----	0.771
582	0.851	562.30	0.812	0.782	----	----	----	----	----	----	----	0.782
585	0.875	562.31	0.826	0.797	----	----	----	----	----	----	----	0.797
588	0.900	562.31	0.842	0.813	----	----	----	----	----	----	----	0.813
591	0.925	562.32	0.860	0.831	----	----	----	----	----	----	----	0.831
594	0.950	562.32	0.879	0.850	----	----	----	----	----	----	----	0.850
597	0.975	562.33	0.899	0.871	----	----	----	----	----	----	----	0.871
600	1.001	562.34	0.919	0.892	----	----	----	----	----	----	----	0.892
603	1.027	562.34	0.941	0.914	----	----	----	----	----	----	----	0.914
606	1.057	562.35	0.964	0.937	----	----	----	----	----	----	----	0.937
609	1.091	562.36	0.988	0.962	----	----	----	----	----	----	----	0.962
612	1.128	562.36	1.014	0.989	----	----	----	----	----	----	----	0.989
615	1.165	562.37	1.042	1.017	----	----	----	----	----	----	----	1.017
618	1.203	562.38	1.072	1.047	----	----	----	----	----	----	----	1.047
621	1.241	562.39	1.102	1.079	----	----	----	----	----	----	----	1.079
624	1.279	562.40	1.135	1.112	----	----	----	----	----	----	----	1.112
627	1.318	562.41	1.177	1.147	----	----	----	----	----	----	----	1.147
630	1.357	562.42	1.219	1.183	----	----	----	----	----	----	----	1.183
633	1.399	562.43	1.262	1.220	----	----	----	----	----	----	----	1.220
636	1.447	562.44	1.307	1.258	----	----	----	----	----	----	----	1.258
639	1.504	562.46	1.354	1.299	----	----	----	----	----	----	----	1.299
642	1.565	562.47	1.406	1.343	----	----	----	----	----	----	----	1.344
645	1.628	562.48	1.462	1.391	----	----	----	----	----	----	----	1.391
648	1.692	562.50	1.521	1.442	----	----	----	----	----	----	----	1.442
651	1.757	562.51	1.572	1.501	----	----	----	----	----	----	----	1.501
654	1.822	562.53	1.621	1.562	----	----	----	----	----	----	----	1.562
657	1.888	562.54	1.671	1.624	----	----	----	----	----	----	----	1.624

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Hydrograph Discharge Table

Time (min)	Inflow cfs	Elevation ft	Civ A cfs	Civ B cfs	Civ C cfs	PfRsr cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	Outflow cfs
660	1.955	562.56	1.722	1.687	----	----	----	----	----	----	----	1.687
663	2.030	562.58	1.774	1.751	----	----	----	----	----	----	----	1.751
666	2.130	562.59	1.830	1.821	----	----	----	----	----	----	----	1.821
669	2.258	562.62	1.897	1.892	----	----	----	----	----	----	----	1.892
672	2.404	562.64	1.977	1.973	----	----	----	----	----	----	----	1.973
675	2.557	562.67	2.069	2.067	----	----	----	----	----	----	----	2.067
678	2.712	562.70	2.173	2.172	----	----	----	----	----	----	----	2.172
681	2.869	562.73	2.334	2.294	----	----	----	----	----	----	----	2.294
684	3.027	562.77	2.507	2.423	----	----	----	----	----	----	----	2.423
687	3.187	562.81	2.677	2.557	----	----	----	----	----	----	----	2.557
690	3.348	562.84	2.779	2.692	----	----	----	----	----	----	----	2.692
693	3.860	562.89	2.910	2.865	----	----	----	----	----	----	----	2.865
696	5.427	563.00	3.186	3.077	----	----	----	----	----	----	----	3.077
699	6.199	563.07	3.301	3.264	----	----	----	----	----	----	----	3.264
702	11.75	563.21	3.640	3.516	----	----	----	----	----	----	----	3.516
705	15.65	563.41	3.946	3.938	----	----	----	----	----	----	----	3.938
708	20.35	563.69	4.550	4.413	----	----	----	----	----	----	----	4.413
711	27.29	564.07	5.184	5.031	----	----	----	----	----	----	----	5.031
714	36.79	564.52	8.438	5.129	3.194	----	----	----	----	----	----	8.323
717	44.25 <<	565.03	15.51	4.308	11.11	----	----	----	----	----	----	15.42
720	41.21	565.42	20.57	3.317	17.25	----	----	----	----	----	----	20.56
723	28.24	565.62 <<	23.08	3.722	19.35	----	----	----	----	----	----	23.07 <<
726	15.29	565.60	22.86	3.687	19.17	----	----	----	----	----	----	22.86
729	8.174	565.44	20.89	3.369	17.51	----	----	----	----	----	----	20.88
732	6.088	565.25	18.41	3.439	14.97	----	----	----	----	----	----	18.41
735	5.689	565.07	16.08	4.195	11.84	----	----	----	----	----	----	16.03
738	5.300	564.91	13.64	4.618	8.975	----	----	----	----	----	----	13.59
741	4.910	564.78	11.74	4.843	6.774	----	----	----	----	----	----	11.62
744	4.519	564.67	10.27	4.983	5.130	----	----	----	----	----	----	10.11
747	4.127	564.57	9.053	5.088	3.860	----	----	----	----	----	----	8.947
750	3.734	564.49	8.107	5.151	2.847	----	----	----	----	----	----	7.998
753	3.372	564.42	7.273	5.206	2.044	----	----	----	----	----	----	7.250
756	3.100	564.35	6.619	5.215	1.404	----	----	----	----	----	----	6.619
759	2.930	564.29	6.092	5.208	0.874	----	----	----	----	----	----	6.082
762	2.821	564.24	5.803	5.196	0.512	----	----	----	----	----	----	5.707
765	2.731	564.19	5.555	5.176	0.219	----	----	----	----	----	----	5.395
768	2.642	564.14	5.392	5.126	0.106	----	----	----	----	----	----	5.232
771	2.552	564.10	5.236	5.077	----	----	----	----	----	----	----	5.077
774	2.463	564.05	5.158	5.007	----	----	----	----	----	----	----	5.007
777	2.373	564.01	5.080	4.938	----	----	----	----	----	----	----	4.938
780	2.284	563.98	4.994	4.857	----	----	----	----	----	----	----	4.857
783	2.198	563.90	4.905	4.773	----	----	----	----	----	----	----	4.773
786	2.125	563.85	4.818	4.688	----	----	----	----	----	----	----	4.688
789	2.066	563.80	4.731	4.602	----	----	----	----	----	----	----	4.602
792	2.015	563.75	4.647	4.515	----	----	----	----	----	----	----	4.515
795	1.966	563.70	4.564	4.429	----	----	----	----	----	----	----	4.429
798	1.918	563.65	4.484	4.340	----	----	----	----	----	----	----	4.340
801	1.870	563.60	4.405	4.253	----	----	----	----	----	----	----	4.253
804	1.821	563.55	4.252	4.173	----	----	----	----	----	----	----	4.173
807	1.773	563.50	4.102	4.095	----	----	----	----	----	----	----	4.095
810	1.725	563.46	4.022	4.018	----	----	----	----	----	----	----	4.018
813	1.678	563.41	3.950	3.942	----	----	----	----	----	----	----	3.942
816	1.635	563.37	3.880	3.854	----	----	----	----	----	----	----	3.854
819	1.596	563.32	3.812	3.783	----	----	----	----	----	----	----	3.783

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Hydrograph Discharge Table

Time (min)	Inflow cfs	Elevation ft	Civ A cfs	Civ B cfs	Civ C cfs	PFRer cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	Outflow cfs
822	1.561	563.28	3.747	3.672	-----	-----	-----	-----	-----	-----	-----	3.672
825	1.526	563.24	3.684	3.580	-----	-----	-----	-----	-----	-----	-----	3.580
828	1.492	563.19	3.614	3.493	-----	-----	-----	-----	-----	-----	-----	3.493
831	1.457	563.15	3.497	3.424	-----	-----	-----	-----	-----	-----	-----	3.424
834	1.422	563.11	3.382	3.356	-----	-----	-----	-----	-----	-----	-----	3.356
837	1.388	563.08	3.305	3.272	-----	-----	-----	-----	-----	-----	-----	3.272
840	1.353	563.04	3.252	3.179	-----	-----	-----	-----	-----	-----	-----	3.179
843	1.321	563.00	3.201	3.090	-----	-----	-----	-----	-----	-----	-----	3.090
846	1.295	562.90	2.932	2.890	-----	-----	-----	-----	-----	-----	-----	2.890
849	1.277	562.81	2.701	2.589	-----	-----	-----	-----	-----	-----	-----	2.589
852	1.263	562.74	2.384	2.331	-----	-----	-----	-----	-----	-----	-----	2.331
855	1.251	562.68	2.124	2.123	-----	-----	-----	-----	-----	-----	-----	2.123
858	1.239	562.64	1.964	1.961	-----	-----	-----	-----	-----	-----	-----	1.961
861	1.227	562.60	1.833	1.824	-----	-----	-----	-----	-----	-----	-----	1.824
864	1.215	562.56	1.730	1.697	-----	-----	-----	-----	-----	-----	-----	1.697
867	1.203	562.54	1.647	1.594	-----	-----	-----	-----	-----	-----	-----	1.594
870	1.191	562.52	1.579	1.510	-----	-----	-----	-----	-----	-----	-----	1.510
873	1.179	562.50	1.521	1.442	-----	-----	-----	-----	-----	-----	-----	1.442
876	1.167	562.48	1.462	1.391	-----	-----	-----	-----	-----	-----	-----	1.391
879	1.155	562.47	1.411	1.348	-----	-----	-----	-----	-----	-----	-----	1.348
882	1.143	562.46	1.367	1.310	-----	-----	-----	-----	-----	-----	-----	1.310
885	1.130	562.45	1.329	1.277	-----	-----	-----	-----	-----	-----	-----	1.277
888	1.118	562.44	1.295	1.249	-----	-----	-----	-----	-----	-----	-----	1.249
891	1.106	562.43	1.265	1.223	-----	-----	-----	-----	-----	-----	-----	1.223
894	1.094	562.43	1.238	1.200	-----	-----	-----	-----	-----	-----	-----	1.200
897	1.082	562.42	1.214	1.179	-----	-----	-----	-----	-----	-----	-----	1.179
900	1.070	562.42	1.191	1.159	-----	-----	-----	-----	-----	-----	-----	1.159
903	1.058	562.41	1.170	1.141	-----	-----	-----	-----	-----	-----	-----	1.141
906	1.046	562.41	1.150	1.124	-----	-----	-----	-----	-----	-----	-----	1.124
909	1.033	562.40	1.132	1.108	-----	-----	-----	-----	-----	-----	-----	1.108
912	1.021	562.40	1.117	1.093	-----	-----	-----	-----	-----	-----	-----	1.094
915	1.009	562.39	1.103	1.079	-----	-----	-----	-----	-----	-----	-----	1.079
918	0.997	562.39	1.089	1.066	-----	-----	-----	-----	-----	-----	-----	1.066
921	0.985	562.38	1.076	1.052	-----	-----	-----	-----	-----	-----	-----	1.052
924	0.973	562.38	1.063	1.039	-----	-----	-----	-----	-----	-----	-----	1.039
927	0.961	562.38	1.050	1.026	-----	-----	-----	-----	-----	-----	-----	1.026
930	0.948	562.37	1.038	1.013	-----	-----	-----	-----	-----	-----	-----	1.013
933	0.936	562.37	1.025	1.000	-----	-----	-----	-----	-----	-----	-----	1.000
936	0.924	562.36	1.013	0.987	-----	-----	-----	-----	-----	-----	-----	0.987
939	0.912	562.36	1.001	0.975	-----	-----	-----	-----	-----	-----	-----	0.975
942	0.900	562.36	0.988	0.962	-----	-----	-----	-----	-----	-----	-----	0.962
945	0.888	562.35	0.976	0.950	-----	-----	-----	-----	-----	-----	-----	0.950
948	0.875	562.35	0.964	0.938	-----	-----	-----	-----	-----	-----	-----	0.938
951	0.863	562.35	0.952	0.925	-----	-----	-----	-----	-----	-----	-----	0.925
954	0.851	562.34	0.940	0.913	-----	-----	-----	-----	-----	-----	-----	0.913
957	0.839	562.34	0.928	0.901	-----	-----	-----	-----	-----	-----	-----	0.901
960	0.827	562.33	0.916	0.888	-----	-----	-----	-----	-----	-----	-----	0.888
963	0.815	562.33	0.904	0.876	-----	-----	-----	-----	-----	-----	-----	0.876
966	0.806	562.33	0.892	0.864	-----	-----	-----	-----	-----	-----	-----	0.864
969	0.800	562.32	0.881	0.853	-----	-----	-----	-----	-----	-----	-----	0.853
972	0.795	562.32	0.872	0.843	-----	-----	-----	-----	-----	-----	-----	0.843
975	0.791	562.32	0.863	0.834	-----	-----	-----	-----	-----	-----	-----	0.834
978	0.786	562.32	0.855	0.826	-----	-----	-----	-----	-----	-----	-----	0.826
981	0.782	562.31	0.847	0.818	-----	-----	-----	-----	-----	-----	-----	0.818

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Hydrograph Discharge Table

Time (min)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	PfRsr cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	Outflow cfs
984	0.778	562.31	0.840	0.811	-----	-----	-----	-----	-----	-----	-----	0.811
987	0.773	562.31	0.834	0.805	-----	-----	-----	-----	-----	-----	-----	0.805
990	0.769	562.31	0.828	0.799	-----	-----	-----	-----	-----	-----	-----	0.799
993	0.765	562.31	0.823	0.793	-----	-----	-----	-----	-----	-----	-----	0.793
996	0.760	562.30	0.817	0.787	-----	-----	-----	-----	-----	-----	-----	0.787
999	0.756	562.30	0.812	0.782	-----	-----	-----	-----	-----	-----	-----	0.782
1002	0.752	562.30	0.807	0.777	-----	-----	-----	-----	-----	-----	-----	0.777
1005	0.747	562.30	0.802	0.773	-----	-----	-----	-----	-----	-----	-----	0.773
1008	0.743	562.30	0.798	0.768	-----	-----	-----	-----	-----	-----	-----	0.768
1011	0.739	562.30	0.793	0.764	-----	-----	-----	-----	-----	-----	-----	0.764
1014	0.734	562.29	0.788	0.760	-----	-----	-----	-----	-----	-----	-----	0.760
1017	0.730	562.29	0.784	0.756	-----	-----	-----	-----	-----	-----	-----	0.756
1020	0.726	562.29	0.779	0.752	-----	-----	-----	-----	-----	-----	-----	0.752
1023	0.721	562.29	0.774	0.747	-----	-----	-----	-----	-----	-----	-----	0.747
1028	0.717	562.29	0.770	0.743	-----	-----	-----	-----	-----	-----	-----	0.743
1029	0.713	562.29	0.765	0.739	-----	-----	-----	-----	-----	-----	-----	0.739
1032	0.708	562.28	0.760	0.735	-----	-----	-----	-----	-----	-----	-----	0.735
1035	0.704	562.28	0.755	0.730	-----	-----	-----	-----	-----	-----	-----	0.730
1038	0.700	562.28	0.750	0.726	-----	-----	-----	-----	-----	-----	-----	0.726
1041	0.695	562.28	0.746	0.722	-----	-----	-----	-----	-----	-----	-----	0.722
1044	0.691	562.28	0.741	0.717	-----	-----	-----	-----	-----	-----	-----	0.717
1047	0.687	562.28	0.736	0.713	-----	-----	-----	-----	-----	-----	-----	0.713
1050	0.682	562.28	0.731	0.709	-----	-----	-----	-----	-----	-----	-----	0.709
1053	0.678	562.27	0.726	0.704	-----	-----	-----	-----	-----	-----	-----	0.704
1056	0.674	562.27	0.722	0.700	-----	-----	-----	-----	-----	-----	-----	0.700
1059	0.669	562.27	0.717	0.696	-----	-----	-----	-----	-----	-----	-----	0.696
1062	0.665	562.27	0.712	0.691	-----	-----	-----	-----	-----	-----	-----	0.691
1065	0.660	562.27	0.707	0.687	-----	-----	-----	-----	-----	-----	-----	0.687
1068	0.656	562.27	0.702	0.683	-----	-----	-----	-----	-----	-----	-----	0.683
1071	0.652	562.26	0.697	0.678	-----	-----	-----	-----	-----	-----	-----	0.678
1074	0.647	562.26	0.693	0.674	-----	-----	-----	-----	-----	-----	-----	0.674
1077	0.643	562.26	0.688	0.670	-----	-----	-----	-----	-----	-----	-----	0.670
1080	0.639	562.26	0.683	0.665	-----	-----	-----	-----	-----	-----	-----	0.665
1083	0.634	562.26	0.678	0.661	-----	-----	-----	-----	-----	-----	-----	0.661
1086	0.630	562.26	0.673	0.657	-----	-----	-----	-----	-----	-----	-----	0.657
1089	0.626	562.25	0.668	0.652	-----	-----	-----	-----	-----	-----	-----	0.652
1092	0.621	562.25	0.664	0.648	-----	-----	-----	-----	-----	-----	-----	0.648
1095	0.617	562.25	0.659	0.644	-----	-----	-----	-----	-----	-----	-----	0.644
1098	0.613	562.25	0.654	0.639	-----	-----	-----	-----	-----	-----	-----	0.639
1101	0.608	562.25	0.649	0.635	-----	-----	-----	-----	-----	-----	-----	0.635
1104	0.604	562.25	0.644	0.631	-----	-----	-----	-----	-----	-----	-----	0.630
1107	0.600	562.24	0.640	0.626	-----	-----	-----	-----	-----	-----	-----	0.626
1110	0.595	562.24	0.635	0.622	-----	-----	-----	-----	-----	-----	-----	0.622
1113	0.591	562.24	0.630	0.617	-----	-----	-----	-----	-----	-----	-----	0.617
1116	0.586	562.24	0.625	0.613	-----	-----	-----	-----	-----	-----	-----	0.613
1119	0.582	562.24	0.620	0.609	-----	-----	-----	-----	-----	-----	-----	0.609
1122	0.578	562.24	0.615	0.604	-----	-----	-----	-----	-----	-----	-----	0.604
1125	0.573	562.23	0.611	0.600	-----	-----	-----	-----	-----	-----	-----	0.600
1128	0.569	562.23	0.606	0.596	-----	-----	-----	-----	-----	-----	-----	0.596
1131	0.565	562.23	0.601	0.591	-----	-----	-----	-----	-----	-----	-----	0.591
1134	0.560	562.23	0.596	0.587	-----	-----	-----	-----	-----	-----	-----	0.587
1137	0.556	562.23	0.591	0.583	-----	-----	-----	-----	-----	-----	-----	0.583
1140	0.552	562.23	0.586	0.578	-----	-----	-----	-----	-----	-----	-----	0.578
1143	0.547	562.23	0.582	0.574	-----	-----	-----	-----	-----	-----	-----	0.574

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Hydrograph Discharge Table

Time (min)	Inflow cfs	Elevation ft	Civ A cfs	Civ B cfs	Civ C cfs	PfRsr cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	Outflow cfs
1146	0.543	562.22	0.577	0.569	----	----	----	----	----	----	----	0.569
1149	0.538	562.22	0.572	0.565	----	----	----	----	----	----	----	0.565
1152	0.534	562.22	0.567	0.561	----	----	----	----	----	----	----	0.561
1155	0.530	562.22	0.562	0.556	----	----	----	----	----	----	----	0.556
1158	0.525	562.22	0.557	0.552	----	----	----	----	----	----	----	0.552
1161	0.521	562.22	0.552	0.548	----	----	----	----	----	----	----	0.548
1164	0.517	562.21	0.548	0.543	----	----	----	----	----	----	----	0.543
1167	0.512	562.21	0.543	0.539	----	----	----	----	----	----	----	0.539
1170	0.508	562.21	0.538	0.535	----	----	----	----	----	----	----	0.535
1173	0.504	562.21	0.533	0.530	----	----	----	----	----	----	----	0.530
1176	0.499	562.21	0.528	0.526	----	----	----	----	----	----	----	0.526
1179	0.495	562.21	0.523	0.522	----	----	----	----	----	----	----	0.521
1182	0.490	562.20	0.518	0.517	----	----	----	----	----	----	----	0.517
1185	0.486	562.20	0.514	0.513	----	----	----	----	----	----	----	0.513
1188	0.482	562.20	0.509	0.508	----	----	----	----	----	----	----	0.508
1191	0.477	562.20	0.504	0.504	----	----	----	----	----	----	----	0.504
1194	0.473	562.20	0.501	0.501	----	----	----	----	----	----	----	0.500
1197	0.469	562.20	0.497	0.497	----	----	----	----	----	----	----	0.497
1200	0.464	562.19	0.493	0.493	----	----	----	----	----	----	----	0.493
1203	0.460	562.19	0.490	0.489	----	----	----	----	----	----	----	0.489
1206	0.457	562.19	0.486	0.485	----	----	----	----	----	----	----	0.485
1209	0.455	562.19	0.483	0.481	----	----	----	----	----	----	----	0.481
1212	0.454	562.19	0.479	0.478	----	----	----	----	----	----	----	0.478
1215	0.453	562.19	0.476	0.475	----	----	----	----	----	----	----	0.475
1218	0.453	562.19	0.474	0.472	----	----	----	----	----	----	----	0.472
1221	0.452	562.18	0.471	0.470	----	----	----	----	----	----	----	0.470
1224	0.451	562.18	0.469	0.467	----	----	----	----	----	----	----	0.467
1227	0.450	562.18	0.467	0.465	----	----	----	----	----	----	----	0.465
1230	0.449	562.18	0.465	0.463	----	----	----	----	----	----	----	0.463
1233	0.448	562.18	0.463	0.461	----	----	----	----	----	----	----	0.461
1236	0.447	562.18	0.462	0.460	----	----	----	----	----	----	----	0.460
1239	0.447	562.18	0.460	0.458	----	----	----	----	----	----	----	0.458
1242	0.446	562.18	0.459	0.456	----	----	----	----	----	----	----	0.456
1245	0.445	562.18	0.457	0.455	----	----	----	----	----	----	----	0.455
1248	0.444	562.18	0.456	0.454	----	----	----	----	----	----	----	0.454
1251	0.443	562.18	0.455	0.452	----	----	----	----	----	----	----	0.452
1254	0.442	562.18	0.454	0.451	----	----	----	----	----	----	----	0.451
1257	0.441	562.18	0.453	0.450	----	----	----	----	----	----	----	0.450
1260	0.440	562.17	0.451	0.449	----	----	----	----	----	----	----	0.449
1263	0.440	562.17	0.450	0.448	----	----	----	----	----	----	----	0.448
1266	0.439	562.17	0.449	0.447	----	----	----	----	----	----	----	0.447
1269	0.438	562.17	0.448	0.446	----	----	----	----	----	----	----	0.446
1272	0.437	562.17	0.447	0.444	----	----	----	----	----	----	----	0.444
1275	0.436	562.17	0.446	0.444	----	----	----	----	----	----	----	0.443
1278	0.435	562.17	0.445	0.442	----	----	----	----	----	----	----	0.442
1281	0.434	562.17	0.444	0.441	----	----	----	----	----	----	----	0.441
1284	0.434	562.17	0.443	0.440	----	----	----	----	----	----	----	0.441
1287	0.433	562.17	0.443	0.440	----	----	----	----	----	----	----	0.440
1290	0.432	562.17	0.442	0.439	----	----	----	----	----	----	----	0.439
1293	0.431	562.17	0.441	0.438	----	----	----	----	----	----	----	0.438
1296	0.430	562.17	0.440	0.437	----	----	----	----	----	----	----	0.437
1299	0.429	562.17	0.439	0.436	----	----	----	----	----	----	----	0.436
1302	0.428	562.17	0.438	0.435	----	----	----	----	----	----	----	0.435
1305	0.427	562.17	0.437	0.434	----	----	----	----	----	----	----	0.434

Continues on next page...

Hydrograph Discharge Table

Time (min)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	PfRsr cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	Outflow cfs
1308	0.427	562.17	0.436	0.433	-----	-----	-----	-----	-----	-----	-----	0.433
1311	0.426	562.17	0.436	0.432	-----	-----	-----	-----	-----	-----	-----	0.432
1314	0.425	562.17	0.435	0.431	-----	-----	-----	-----	-----	-----	-----	0.431
1317	0.424	562.17	0.434	0.430	-----	-----	-----	-----	-----	-----	-----	0.430
1320	0.423	562.17	0.433	0.430	-----	-----	-----	-----	-----	-----	-----	0.430
1323	0.422	562.17	0.432	0.429	-----	-----	-----	-----	-----	-----	-----	0.429
1326	0.421	562.17	0.431	0.428	-----	-----	-----	-----	-----	-----	-----	0.428
1329	0.420	562.17	0.430	0.427	-----	-----	-----	-----	-----	-----	-----	0.427
1332	0.420	562.16	0.430	0.426	-----	-----	-----	-----	-----	-----	-----	0.426
1335	0.419	562.16	0.429	0.425	-----	-----	-----	-----	-----	-----	-----	0.425
1338	0.418	562.16	0.428	0.424	-----	-----	-----	-----	-----	-----	-----	0.424
1341	0.417	562.16	0.427	0.423	-----	-----	-----	-----	-----	-----	-----	0.423
1344	0.416	562.16	0.426	0.423	-----	-----	-----	-----	-----	-----	-----	0.423
1347	0.415	562.16	0.425	0.422	-----	-----	-----	-----	-----	-----	-----	0.422
1350	0.414	562.16	0.425	0.421	-----	-----	-----	-----	-----	-----	-----	0.421
1353	0.414	562.16	0.424	0.420	-----	-----	-----	-----	-----	-----	-----	0.420
1356	0.413	562.16	0.423	0.419	-----	-----	-----	-----	-----	-----	-----	0.419
1359	0.412	562.16	0.422	0.418	-----	-----	-----	-----	-----	-----	-----	0.418
1362	0.411	562.16	0.421	0.417	-----	-----	-----	-----	-----	-----	-----	0.417
1365	0.410	562.16	0.420	0.416	-----	-----	-----	-----	-----	-----	-----	0.416
1368	0.409	562.16	0.420	0.416	-----	-----	-----	-----	-----	-----	-----	0.416
1371	0.408	562.16	0.419	0.415	-----	-----	-----	-----	-----	-----	-----	0.415
1374	0.407	562.16	0.418	0.414	-----	-----	-----	-----	-----	-----	-----	0.414
1377	0.407	562.16	0.417	0.413	-----	-----	-----	-----	-----	-----	-----	0.413
1380	0.406	562.16	0.416	0.412	-----	-----	-----	-----	-----	-----	-----	0.412
1383	0.405	562.16	0.415	0.411	-----	-----	-----	-----	-----	-----	-----	0.411
1386	0.404	562.16	0.415	0.410	-----	-----	-----	-----	-----	-----	-----	0.410
1389	0.403	562.16	0.414	0.409	-----	-----	-----	-----	-----	-----	-----	0.409
1392	0.402	562.16	0.413	0.409	-----	-----	-----	-----	-----	-----	-----	0.409
1395	0.401	562.16	0.412	0.408	-----	-----	-----	-----	-----	-----	-----	0.408
1398	0.400	562.16	0.411	0.407	-----	-----	-----	-----	-----	-----	-----	0.407
1401	0.400	562.16	0.411	0.406	-----	-----	-----	-----	-----	-----	-----	0.406
1404	0.399	562.16	0.410	0.405	-----	-----	-----	-----	-----	-----	-----	0.405
1407	0.398	562.16	0.409	0.404	-----	-----	-----	-----	-----	-----	-----	0.404
1410	0.397	562.15	0.408	0.403	-----	-----	-----	-----	-----	-----	-----	0.403
1413	0.396	562.15	0.407	0.403	-----	-----	-----	-----	-----	-----	-----	0.403
1416	0.395	562.15	0.406	0.402	-----	-----	-----	-----	-----	-----	-----	0.402
1419	0.394	562.15	0.406	0.401	-----	-----	-----	-----	-----	-----	-----	0.401
1422	0.394	562.15	0.405	0.400	-----	-----	-----	-----	-----	-----	-----	0.400
1425	0.393	562.15	0.404	0.399	-----	-----	-----	-----	-----	-----	-----	0.399
1428	0.392	562.15	0.403	0.398	-----	-----	-----	-----	-----	-----	-----	0.398
1431	0.391	562.15	0.402	0.397	-----	-----	-----	-----	-----	-----	-----	0.397
1434	0.390	562.15	0.401	0.396	-----	-----	-----	-----	-----	-----	-----	0.396
1437	0.389	562.15	0.401	0.396	-----	-----	-----	-----	-----	-----	-----	0.396
1440	0.388	562.15	0.400	0.395	-----	-----	-----	-----	-----	-----	-----	0.395
1443	0.310	562.15	0.394	0.389	-----	-----	-----	-----	-----	-----	-----	0.389
1446	0.155	562.14	0.375	0.369	-----	-----	-----	-----	-----	-----	-----	0.369
1449	0.052	562.12	0.343	0.335	-----	-----	-----	-----	-----	-----	-----	0.335
1452	0.000	562.11	0.305	0.296	-----	-----	-----	-----	-----	-----	-----	0.296
1455	0.000	562.09	0.274	0.264	-----	-----	-----	-----	-----	-----	-----	0.264
1458	0.000	562.07	0.250	0.239	-----	-----	-----	-----	-----	-----	-----	0.239

...End

Hydrograph Summary Report

Hydraflow Hydrographs by Intelisolve v9.2

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph description
1	SCS Runoff	35.79	3	720	97,684	---	-----	-----	Existing to NW (Mason Report)
2	SCS Runoff	53.10	3	717	135,157	---	-----	-----	Proposed (Mason Report)
3	SCS Runoff	58.72	3	717	144,854	---	-----	-----	Proposed to Revise Basin
4	Reservoir	35.01	3	723	144,880	3	566.32	37,189	Pr thru Rev Basin
5	Reservoir	43.05	3	723	132,002	3	566.62	40,722	Pr. thr Rev Basin LFB
11-1230-HQ-SCS-09-09-16.gpw					Return Period: 100 Year			Friday, Sep 9, 2016	

Hydrograph Report

Hydraflow Hydrographs by Intellisolve v9.2

Friday, Sep 2, 2016

Hyd. No. 1

Existing to NW (Mason Report)

Hydrograph type	= SCS Runoff	Peak discharge	= 35.79 cfs
Storm frequency	= 100 yrs	Time to peak	= 720 min
Time interval	= 3 min	Hyd. volume	= 97,684 cuft
Drainage area	= 5.870 ac	Curve number	= 79
Basin Slope	= 2.7 %	Hydraulic length	= 808 ft
Tc method	= USER	Time of conc. (Tc)	= 14.0 min
Total precip.	= 7.00 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

Hydrograph Discharge Table

(Printed values => 1.00% of Qp.)

Time (min)	Outflow (cfs)	Time (min)	Outflow (cfs)	Time (min)	Outflow (cfs)	Time (min)	Outflow (cfs)
543	0.358	654	1.202	765	2.997	876	1.249
546	0.369	657	1.258	768	2.876	879	1.236
549	0.380	660	1.315	771	2.777	882	1.224
552	0.388	663	1.375	774	2.686	885	1.211
555	0.396	666	1.444	777	2.595	888	1.199
558	0.403	669	1.528	780	2.504	891	1.187
561	0.410	672	1.627	783	2.414	894	1.174
564	0.416	675	1.739	786	2.329	897	1.161
567	0.423	678	1.862	789	2.253	900	1.149
570	0.429	681	1.993	792	2.187	903	1.136
573	0.436	684	2.129	795	2.128	906	1.124
576	0.444	687	2.269	798	2.074	909	1.111
579	0.454	690	2.413	801	2.024	912	1.099
582	0.467	693	2.677	804	1.974	915	1.086
585	0.483	696	3.305	807	1.924	918	1.073
588	0.500	699	4.580	810	1.875	921	1.061
591	0.518	702	6.550	813	1.825	924	1.048
594	0.537	705	9.204	816	1.778	927	1.035
597	0.556	708	12.71	819	1.733	930	1.023
600	0.576	711	17.55	822	1.692	933	1.010
603	0.596	714	24.27	825	1.653	936	0.997
606	0.618	717	31.52	828	1.616	939	0.985
609	0.641	720	35.79 <<	831	1.580	942	0.972
612	0.667	723	34.47	834	1.544	945	0.959
615	0.694	726	28.37	837	1.508	948	0.946
618	0.722	729	21.04	840	1.472	951	0.934
621	0.752	732	14.55	843	1.437	954	0.921
624	0.782	735	9.523	846	1.405	957	0.908
627	0.814	738	6.612	849	1.378	960	0.895
630	0.845	741	5.579	852	1.356	963	0.883
633	0.878	744	5.184	855	1.338	966	0.872
636	0.914	747	4.790	858	1.324	969	0.862
639	0.954	750	4.393	861	1.311	972	0.854
642	0.997	753	4.007	864	1.298	975	0.848
645	1.045	756	3.658	867	1.286	978	0.842
648	1.095	759	3.373	870	1.274	981	0.838
651	1.148	762	3.158	873	1.261	984	0.833

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Hydrograph Discharge Table

Time -- Outflow (min cfs)	Time -- Outflow (min cfs)	Time -- Outflow (min cfs)			
987	0.829	1149	0.583	1311	0.459
990	0.824	1152	0.578	1314	0.458
993	0.820	1155	0.574	1317	0.457
998	0.815	1158	0.569	1320	0.456
999	0.811	1161	0.564	1323	0.455
1002	0.806	1164	0.560	1326	0.455
1005	0.802	1167	0.555	1329	0.454
1008	0.797	1170	0.551	1332	0.453
1011	0.793	1173	0.546	1335	0.452
1014	0.788	1176	0.541	1338	0.451
1017	0.784	1179	0.537	1341	0.450
1020	0.779	1182	0.532	1344	0.449
1023	0.775	1185	0.527	1347	0.448
1026	0.770	1188	0.523	1350	0.447
1029	0.766	1191	0.518	1353	0.446
1032	0.761	1194	0.513	1356	0.445
1035	0.757	1197	0.509	1359	0.445
1038	0.752	1200	0.504	1362	0.444
1041	0.748	1203	0.500	1365	0.443
1044	0.743	1206	0.496	1368	0.442
1047	0.739	1209	0.492	1371	0.441
1050	0.734	1212	0.490	1374	0.440
1053	0.730	1215	0.488	1377	0.439
1056	0.725	1218	0.487	1380	0.438
1059	0.720	1221	0.486	1383	0.437
1062	0.716	1224	0.485	1386	0.436
1065	0.711	1227	0.484	1389	0.435
1068	0.707	1230	0.483	1392	0.435
1071	0.702	1233	0.482	1395	0.434
1074	0.698	1236	0.481	1398	0.433
1077	0.693	1239	0.481	1401	0.432
1080	0.689	1242	0.480	1404	0.431
1083	0.684	1245	0.479	1407	0.430
1086	0.679	1248	0.478	1410	0.429
1089	0.675	1251	0.477	1413	0.428
1092	0.670	1254	0.476	1416	0.427
1095	0.666	1257	0.475	1419	0.426
1098	0.661	1260	0.474	1422	0.425
1101	0.657	1263	0.473	1425	0.425
1104	0.652	1266	0.473	1428	0.424
1107	0.647	1269	0.472	1431	0.423
1110	0.643	1272	0.471	1434	0.422
1113	0.638	1275	0.470	1437	0.421
1116	0.634	1278	0.469	1440	0.420
1119	0.629	1281	0.468	1443	0.384
1122	0.624	1284	0.467		
1125	0.620	1287	0.466	...End	
1128	0.615	1290	0.465		
1131	0.611	1293	0.464		
1134	0.606	1296	0.464		
1137	0.601	1299	0.463		
1140	0.597	1302	0.462		
1143	0.592	1305	0.461		
1146	0.588	1308	0.460		

Hydrograph Report

Hydraflow Hydrographs by Intelisolve v9.2

Friday, Sep 9, 2016

Hyd. No. 2

Proposed (Mason Report)

Hydrograph type	= SCS Runoff	Peak discharge	= 53.10 cfs
Storm frequency	= 100 yrs	Time to peak	= 717 min
Time interval	= 3 min	Hyd. volume	= 135,157 cuft
Drainage area	= 6.200 ac	Curve number	= 95
Basin Slope	= 2.7 %	Hydraulic length	= 808 ft
Tc method	= USER	Time of conc. (Tc)	= 6.0 min
Total precip.	= 7.00 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

Hydrograph Discharge Table

(Printed values are 1.00% of Cc.)

Time (min)	Outflow (cfs)	Time (min)	Outflow (cfs)	Time (min)	Outflow (cfs)	Time (min)	Outflow (cfs)
369	0.533	480	0.738	591	1.327	702	14.84
372	0.538	483	0.742	594	1.359	705	19.58
375	0.544	486	0.753	597	1.391	708	25.20
378	0.549	489	0.768	600	1.423	711	33.42
381	0.555	492	0.786	603	1.456	714	44.55
384	0.561	495	0.806	606	1.494	717	53.10 <<
387	0.566	498	0.825	609	1.538	720	49.13
390	0.572	501	0.844	612	1.584	723	33.52
393	0.577	504	0.863	615	1.632	726	18.09
396	0.583	507	0.883	618	1.679	729	9.640
399	0.589	510	0.903	621	1.727	732	7.171
402	0.594	513	0.922	624	1.775	735	6.897
405	0.600	516	0.942	627	1.823	738	6.236
408	0.605	519	0.962	630	1.872	741	5.774
411	0.611	522	0.982	633	1.923	744	5.311
414	0.616	525	1.002	636	1.984	747	4.849
417	0.622	528	1.022	639	2.055	750	4.386
420	0.627	531	1.042	642	2.132	753	3.959
423	0.633	534	1.062	645	2.212	756	3.639
426	0.638	537	1.082	648	2.292	759	3.438
429	0.644	540	1.102	651	2.372	762	3.309
432	0.649	543	1.121	654	2.452	765	3.204
435	0.655	546	1.134	657	2.533	768	3.098
438	0.660	549	1.142	660	2.613	771	2.993
441	0.666	552	1.146	663	2.705	774	2.887
444	0.671	555	1.148	666	2.830	777	2.781
447	0.676	558	1.150	669	2.990	780	2.676
450	0.682	561	1.153	672	3.173	783	2.575
453	0.687	564	1.155	675	3.364	786	2.489
456	0.693	567	1.158	678	3.556	789	2.419
459	0.698	570	1.160	681	3.748	792	2.359
462	0.704	573	1.165	684	3.941	795	2.302
465	0.709	576	1.179	687	4.135	798	2.245
468	0.714	579	1.202	690	4.329	801	2.188
471	0.720	582	1.232	693	4.970	804	2.132
474	0.725	585	1.263	696	6.950	807	2.075
477	0.730	588	1.295	699	10.43	810	2.018

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Hydrograph Discharge Table

Time (min)	Outflow (cfs)	Time (min)	Outflow (cfs)	Time (min)	Outflow (cfs)
813	1.963	975	0.921	1137	0.647
816	1.912	978	0.918	1140	0.642
819	1.867	981	0.911	1143	0.637
822	1.825	984	0.906	1146	0.631
825	1.785	987	0.901	1149	0.626
828	1.744	990	0.896	1152	0.621
831	1.703	993	0.891	1155	0.616
834	1.663	996	0.886	1158	0.611
837	1.622	999	0.881	1161	0.606
840	1.581	1002	0.876	1164	0.601
843	1.543	1005	0.871	1167	0.596
846	1.513	1008	0.866	1170	0.591
849	1.492	1011	0.860	1173	0.586
852	1.476	1014	0.855	1176	0.581
855	1.462	1017	0.850	1179	0.575
858	1.448	1020	0.845	1182	0.570
861	1.433	1023	0.840	1185	0.565
864	1.419	1026	0.835	1188	0.560
867	1.405	1029	0.830	1191	0.555
870	1.391	1032	0.825	1194	0.550
873	1.377	1035	0.820	1197	0.545
876	1.362	1038	0.815	1200	0.540
879	1.348	1041	0.810	1203	0.535
882	1.334	1044	0.805	1206	0.532
885	1.320	1047	0.799		
888	1.305	1050	0.794	...End	
891	1.291	1053	0.789		
894	1.277	1056	0.784		
897	1.263	1059	0.779		
900	1.249	1062	0.774		
903	1.234	1065	0.769		
906	1.220	1068	0.764		
909	1.206	1071	0.759		
912	1.192	1074	0.754		
915	1.177	1077	0.749		
918	1.163	1080	0.743		
921	1.149	1083	0.738		
924	1.135	1086	0.733		
927	1.120	1089	0.728		
930	1.106	1092	0.723		
933	1.092	1095	0.718		
936	1.078	1098	0.713		
939	1.063	1101	0.708		
942	1.049	1104	0.703		
945	1.035	1107	0.698		
948	1.021	1110	0.693		
951	1.006	1113	0.687		
954	0.992	1116	0.682		
957	0.978	1119	0.677		
960	0.964	1122	0.672		
963	0.950	1125	0.667		
966	0.940	1128	0.662		
969	0.932	1131	0.657		
972	0.927	1134	0.652		

Hydrograph Report

Hydraflow Hydrographs by Intelisolve v9.2

Friday, Sep 9, 2016

Hyd. No. 3

Proposed to Revise Basin

Hydrograph type	= SCS Runoff	Peak discharge	= 58.72 cfs
Storm frequency	= 100 yrs	Time to peak	= 717 min
Time interval	= 3 min	Hyd. volume	= 144,854 cuft
Drainage area	= 7.030 ac	Curve number	= 92*
Basin Slope	= 2.7 %	Hydraulic length	= 808 ft
Tc method	= USER	Time of conc. (Tc)	= 6.0 min
Total precip.	= 7.00 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

* Composite (Area/CN) = [(1,210 x 74) + (1,430 x 69) + (4,390 x 98)] / 7,030

(Printed values are 1.00% of Qp.)

Hydrograph Discharge Table

Time -- Outflow	Time -- Outflow	Time -- Outflow	Time -- Outflow
(min cfs)	(min cfs)	(min cfs)	(min cfs)
438 0.593	549 1.115	660 2.723	771 3.350
441 0.599	552 1.121	663 2.824	774 3.232
444 0.606	555 1.125	666 2.959	777 3.114
447 0.612	558 1.130	669 3.133	780 2.996
450 0.619	561 1.134	672 3.330	783 2.884
453 0.625	564 1.139	675 3.537	786 2.788
456 0.632	567 1.143	678 3.746	789 2.710
459 0.638	570 1.147	681 3.956	792 2.643
462 0.645	573 1.154	684 4.168	795 2.579
465 0.651	576 1.170	687 4.381	798 2.516
468 0.658	579 1.196	690 4.596	801 2.452
471 0.664	582 1.227	693 5.288	804 2.388
474 0.671	585 1.261	696 7.418	807 2.325
477 0.677	588 1.284	699 11.17	810 2.261
480 0.683	591 1.328	702 15.98	813 2.199
483 0.691	594 1.362	705 21.17	816 2.143
486 0.703	597 1.397	708 27.40	819 2.093
489 0.719	600 1.432	711 36.55	822 2.046
492 0.737	603 1.468	714 49.02	825 2.001
495 0.757	606 1.509	717 58.72 <<	828 1.955
498 0.776	609 1.555	720 54.51	831 1.910
501 0.796	612 1.605	723 37.29	834 1.864
504 0.816	615 1.656	726 20.18	837 1.819
507 0.837	618 1.707	729 10.76	840 1.773
510 0.857	621 1.759	732 8.008	843 1.731
513 0.878	624 1.811	735 7.481	846 1.697
516 0.898	627 1.863	738 6.968	849 1.673
519 0.919	630 1.916	741 6.453	852 1.655
522 0.940	633 1.972	744 5.938	855 1.640
525 0.961	636 2.038	747 5.422	858 1.624
528 0.983	639 2.115	750 4.905	861 1.608
531 1.004	642 2.198	753 4.429	864 1.592
534 1.026	645 2.284	756 4.071	867 1.576
537 1.048	648 2.371	759 3.847	870 1.560
540 1.070	651 2.458	762 3.703	873 1.544
543 1.090	654 2.546	765 3.585	876 1.528
546 1.105	657 2.634	768 3.468	879 1.512

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Hydrograph Discharge Table

Time (min)	Outflow (cfs)	Time (min)	Outflow (cfs)	Time (min)	Outflow (cfs)
882	1.497	1044	0.904	1208	0.598
885	1.481	1047	0.898	1209	0.595
888	1.465	1050	0.892	1212	0.594
891	1.449	1053	0.887	1215	0.593
894	1.433	1058	0.881	1218	0.592
897	1.417	1059	0.875	1221	0.590
900	1.401	1062	0.870	1224	0.589
903	1.385	1065	0.864	1227	0.588
906	1.369	1068	0.858		
909	1.353	1071	0.852	...End	
912	1.337	1074	0.847		
915	1.321	1077	0.841		
918	1.305	1080	0.835		
921	1.289	1083	0.830		
924	1.274	1086	0.824		
927	1.258	1089	0.818		
930	1.242	1092	0.813		
933	1.226	1095	0.807		
936	1.210	1098	0.801		
939	1.194	1101	0.795		
942	1.178	1104	0.790		
945	1.162	1107	0.784		
948	1.146	1110	0.778		
951	1.130	1113	0.773		
954	1.114	1116	0.767		
957	1.098	1119	0.761		
960	1.082	1122	0.755		
963	1.067	1125	0.750		
966	1.055	1128	0.744		
969	1.047	1131	0.738		
972	1.040	1134	0.733		
975	1.035	1137	0.727		
978	1.029	1140	0.721		
981	1.023	1143	0.715		
984	1.018	1146	0.710		
987	1.012	1149	0.704		
990	1.006	1152	0.698		
993	1.001	1155	0.693		
996	0.995	1158	0.687		
999	0.989	1161	0.681		
1002	0.984	1164	0.675		
1005	0.978	1167	0.670		
1008	0.972	1170	0.664		
1011	0.966	1173	0.658		
1014	0.961	1176	0.653		
1017	0.955	1179	0.647		
1020	0.949	1182	0.641		
1023	0.944	1185	0.635		
1026	0.938	1188	0.630		
1029	0.932	1191	0.624		
1032	0.927	1194	0.618		
1035	0.921	1197	0.613		
1038	0.915	1200	0.607		
1041	0.910	1203	0.602		

Hydrograph Report

Hydraflow Hydrographs by Intellisolve v9.2

Friday, Sep 9, 2016

Hyd. No. 4

Pr thru Rev Basin

Hydrograph type	= Reservoir	Peak discharge	= 35.01 cfs
Storm frequency	= 100 yrs	Time to peak	= 723 min
Time interval	= 3 min	Hyd. volume	= 144,860 cuft
Inflow hyd. No.	= 3 - Proposed to Revise Basin	Reservoir name	= Revised Basin
Max. Elevation	= 566.32 ft	Max. Storage	= 37,189 cuft

Storage Indication method used.

(Printed values are 1.00% of Qp.)

Hydrograph Discharge Table

Time (min)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	PfRar cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	Outflow cfs
351	0.405	562.13	0.381	0.354	----	----	----	----	----	----	----	0.354
354	0.411	562.14	0.368	0.361	----	----	----	----	----	----	----	0.361
357	0.418	562.14	0.374	0.368	----	----	----	----	----	----	----	0.368
360	0.424	562.14	0.380	0.375	----	----	----	----	----	----	----	0.375
363	0.430	562.14	0.387	0.381	----	----	----	----	----	----	----	0.381
366	0.437	562.15	0.393	0.388	----	----	----	----	----	----	----	0.388
369	0.443	562.15	0.400	0.395	----	----	----	----	----	----	----	0.395
372	0.450	562.15	0.406	0.401	----	----	----	----	----	----	----	0.401
375	0.456	562.16	0.412	0.408	----	----	----	----	----	----	----	0.408
378	0.463	562.16	0.419	0.414	----	----	----	----	----	----	----	0.414
381	0.469	562.16	0.425	0.421	----	----	----	----	----	----	----	0.421
384	0.476	562.17	0.431	0.428	----	----	----	----	----	----	----	0.428
387	0.482	562.17	0.437	0.434	----	----	----	----	----	----	----	0.434
390	0.489	562.17	0.444	0.441	----	----	----	----	----	----	----	0.441
393	0.495	562.17	0.450	0.447	----	----	----	----	----	----	----	0.447
396	0.502	562.18	0.456	0.454	----	----	----	----	----	----	----	0.454
399	0.508	562.18	0.462	0.460	----	----	----	----	----	----	----	0.460
402	0.515	562.18	0.469	0.467	----	----	----	----	----	----	----	0.467
405	0.521	562.19	0.475	0.473	----	----	----	----	----	----	----	0.473
408	0.528	562.19	0.481	0.480	----	----	----	----	----	----	----	0.480
411	0.534	562.19	0.487	0.486	----	----	----	----	----	----	----	0.486
414	0.541	562.19	0.493	0.493	----	----	----	----	----	----	----	0.493
417	0.547	562.20	0.500	0.499	----	----	----	----	----	----	----	0.499
420	0.554	562.20	0.506	0.506	----	----	----	----	----	----	----	0.506
423	0.560	562.20	0.515	0.514	----	----	----	----	----	----	----	0.514
426	0.567	562.21	0.523	0.521	----	----	----	----	----	----	----	0.521
429	0.573	562.21	0.531	0.528	----	----	----	----	----	----	----	0.529
432	0.580	562.21	0.539	0.536	----	----	----	----	----	----	----	0.536
435	0.586	562.21	0.547	0.543	----	----	----	----	----	----	----	0.543
438	0.593	562.22	0.555	0.550	----	----	----	----	----	----	----	0.550
441	0.599	562.22	0.563	0.557	----	----	----	----	----	----	----	0.557
444	0.606	562.22	0.570	0.564	----	----	----	----	----	----	----	0.564
447	0.612	562.22	0.578	0.571	----	----	----	----	----	----	----	0.571
450	0.619	562.23	0.585	0.577	----	----	----	----	----	----	----	0.577
453	0.625	562.23	0.593	0.584	----	----	----	----	----	----	----	0.584
456	0.632	562.23	0.600	0.591	----	----	----	----	----	----	----	0.591
459	0.638	562.23	0.608	0.597	----	----	----	----	----	----	----	0.597
462	0.645	562.24	0.615	0.604	----	----	----	----	----	----	----	0.604
465	0.651	562.24	0.622	0.611	----	----	----	----	----	----	----	0.611
468	0.658	562.24	0.630	0.617	----	----	----	----	----	----	----	0.617
471	0.664	562.24	0.637	0.624	----	----	----	----	----	----	----	0.624

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Hydrograph Discharge Table

Time (min)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	PfRsr cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	Outflow cfs
474	0.671	562.25	0.644	0.631	----	----	----	----	----	----	----	0.630
477	0.677	562.25	0.662	0.637	----	----	----	----	----	----	----	0.637
480	0.683	562.25	0.659	0.644	----	----	----	----	----	----	----	0.644
483	0.691	562.25	0.666	0.650	----	----	----	----	----	----	----	0.650
486	0.703	562.26	0.674	0.657	----	----	----	----	----	----	----	0.657
489	0.719	562.26	0.683	0.665	----	----	----	----	----	----	----	0.665
492	0.737	562.26	0.694	0.675	----	----	----	----	----	----	----	0.675
495	0.757	562.27	0.706	0.686	----	----	----	----	----	----	----	0.686
498	0.776	562.27	0.719	0.698	----	----	----	----	----	----	----	0.698
501	0.796	562.28	0.734	0.711	----	----	----	----	----	----	----	0.711
504	0.816	562.28	0.750	0.726	----	----	----	----	----	----	----	0.726
507	0.837	562.29	0.767	0.741	----	----	----	----	----	----	----	0.741
510	0.857	562.29	0.785	0.757	----	----	----	----	----	----	----	0.757
513	0.878	562.30	0.803	0.774	----	----	----	----	----	----	----	0.774
516	0.898	562.31	0.824	0.794	----	----	----	----	----	----	----	0.794
519	0.919	562.31	0.844	0.815	----	----	----	----	----	----	----	0.815
522	0.940	562.32	0.864	0.836	----	----	----	----	----	----	----	0.836
525	0.961	562.32	0.885	0.856	----	----	----	----	----	----	----	0.856
528	0.983	562.33	0.905	0.877	----	----	----	----	----	----	----	0.877
531	1.004	562.34	0.926	0.899	----	----	----	----	----	----	----	0.899
534	1.026	562.34	0.946	0.920	----	----	----	----	----	----	----	0.920
537	1.048	562.35	0.967	0.941	----	----	----	----	----	----	----	0.941
540	1.070	562.36	0.988	0.962	----	----	----	----	----	----	----	0.962
543	1.090	562.36	1.009	0.984	----	----	----	----	----	----	----	0.983
546	1.105	562.37	1.029	1.004	----	----	----	----	----	----	----	1.004
549	1.115	562.38	1.048	1.023	----	----	----	----	----	----	----	1.023
552	1.121	562.38	1.065	1.040	----	----	----	----	----	----	----	1.040
555	1.125	562.38	1.079	1.055	----	----	----	----	----	----	----	1.055
558	1.130	562.39	1.092	1.068	----	----	----	----	----	----	----	1.068
561	1.134	562.39	1.103	1.080	----	----	----	----	----	----	----	1.080
564	1.139	562.40	1.113	1.090	----	----	----	----	----	----	----	1.090
567	1.143	562.40	1.122	1.099	----	----	----	----	----	----	----	1.099
570	1.147	562.40	1.131	1.108	----	----	----	----	----	----	----	1.108
573	1.154	562.40	1.140	1.116	----	----	----	----	----	----	----	1.116
576	1.170	562.41	1.151	1.125	----	----	----	----	----	----	----	1.125
579	1.196	562.41	1.164	1.136	----	----	----	----	----	----	----	1.136
582	1.227	562.41	1.180	1.150	----	----	----	----	----	----	----	1.150
585	1.261	562.42	1.201	1.168	----	----	----	----	----	----	----	1.168
588	1.294	562.42	1.225	1.188	----	----	----	----	----	----	----	1.188
591	1.328	562.43	1.252	1.212	----	----	----	----	----	----	----	1.212
594	1.362	562.44	1.282	1.237	----	----	----	----	----	----	----	1.237
597	1.397	562.45	1.313	1.264	----	----	----	----	----	----	----	1.264
600	1.432	562.45	1.346	1.292	----	----	----	----	----	----	----	1.292
603	1.468	562.46	1.381	1.322	----	----	----	----	----	----	----	1.322
606	1.509	562.47	1.418	1.353	----	----	----	----	----	----	----	1.353
609	1.555	562.48	1.457	1.387	----	----	----	----	----	----	----	1.387
612	1.605	562.49	1.500	1.424	----	----	----	----	----	----	----	1.424
615	1.656	562.50	1.542	1.464	----	----	----	----	----	----	----	1.464
618	1.707	562.52	1.579	1.510	----	----	----	----	----	----	----	1.510
621	1.759	562.53	1.617	1.557	----	----	----	----	----	----	----	1.557
624	1.811	562.54	1.656	1.605	----	----	----	----	----	----	----	1.605
627	1.863	562.55	1.696	1.654	----	----	----	----	----	----	----	1.654
630	1.916	562.57	1.736	1.704	----	----	----	----	----	----	----	1.704
633	1.972	562.58	1.777	1.755	----	----	----	----	----	----	----	1.755

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Hydrograph Discharge Table

Time (min)	Inflow cfs	Elevation ft	Civ A cfs	Civ B cfs	Civ C cfs	PfRsr cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	Outflow cfs
636	2.038	562.59	1.820	1.808	----	----	----	----	----	----	----	1.808
639	2.115	562.61	1.867	1.861	----	----	----	----	----	----	----	1.861
642	2.198	562.62	1.921	1.916	----	----	----	----	----	----	----	1.916
645	2.284	562.64	1.980	1.976	----	----	----	----	----	----	----	1.976
648	2.371	562.66	2.044	2.041	----	----	----	----	----	----	----	2.041
651	2.458	562.68	2.111	2.110	----	----	----	----	----	----	----	2.110
654	2.546	562.70	2.185	2.183	----	----	----	----	----	----	----	2.183
657	2.634	562.72	2.293	2.263	----	----	----	----	----	----	----	2.263
660	2.723	562.75	2.403	2.345	----	----	----	----	----	----	----	2.345
663	2.824	562.77	2.517	2.429	----	----	----	----	----	----	----	2.429
666	2.959	562.79	2.639	2.520	----	----	----	----	----	----	----	2.520
669	3.133	562.82	2.725	2.621	----	----	----	----	----	----	----	2.621
672	3.330	562.86	2.813	2.737	----	----	----	----	----	----	----	2.737
675	3.537	562.90	2.913	2.869	----	----	----	----	----	----	----	2.869
678	3.746	562.94	3.032	2.984	----	----	----	----	----	----	----	2.984
681	3.956	562.99	3.170	3.066	----	----	----	----	----	----	----	3.066
684	4.168	563.02	3.221	3.126	----	----	----	----	----	----	----	3.126
687	4.381	563.04	3.253	3.182	----	----	----	----	----	----	----	3.182
690	4.596	563.06	3.290	3.246	----	----	----	----	----	----	----	3.246
693	5.288	563.10	3.338	3.328	----	----	----	----	----	----	----	3.328
696	7.418	563.16	3.511	3.432	----	----	----	----	----	----	----	3.432
699	11.17	563.28	3.744	3.667	----	----	----	----	----	----	----	3.667
702	15.96	563.47	4.045	4.043	----	----	----	----	----	----	----	4.043
705	21.17	563.76	4.670	4.539	----	----	----	----	----	----	----	4.539
708	27.40	564.14	5.371	5.120	0.092	----	----	----	----	----	----	5.212
711	36.55	564.58	9.146	5.081	3.961	----	----	----	----	----	----	9.042
714	49.02	565.10	16.59	4.088	12.51	----	----	----	----	----	----	16.59
717	58.72 <<	565.64	23.26	3.752	19.51	----	----	----	----	----	----	23.26
720	54.51	566.11	29.05	4.482	23.30	----	1.268	----	----	----	----	29.05
723	37.29	566.30 <<	35.01	4.461	23.19	----	7.355	----	----	----	----	35.01 <<
726	20.16	566.23	32.84	4.490	23.35	----	4.800	----	----	----	----	32.84
729	10.76	566.02	27.54	4.401	22.88	----	0.257	----	----	----	----	27.54
732	8.008	565.76	24.88	3.977	20.68	----	----	----	----	----	----	24.65
735	7.481	565.52	21.83	3.521	18.31	----	----	----	----	----	----	21.83
738	6.968	565.31	18.96	3.213	15.74	----	----	----	----	----	----	18.96
741	6.453	565.13	17.04	3.950	13.09	----	----	----	----	----	----	17.04
744	5.938	564.98	14.73	4.447	10.18	----	----	----	----	----	----	14.63
747	5.422	564.84	12.58	4.750	7.755	----	----	----	----	----	----	12.51
750	4.905	564.72	11.00	4.913	5.925	----	----	----	----	----	----	10.84
753	4.429	564.62	9.666	5.039	4.510	----	----	----	----	----	----	9.548
756	4.071	564.54	8.627	5.116	3.399	----	----	----	----	----	----	8.515
759	3.847	564.46	7.769	5.173	2.522	----	----	----	----	----	----	7.696
762	3.703	564.40	7.037	5.220	1.817	----	----	----	----	----	----	7.037
765	3.585	564.34	6.520	5.214	1.306	----	----	----	----	----	----	6.520
768	3.468	564.29	6.088	5.208	0.869	----	----	----	----	----	----	6.077
771	3.350	564.25	5.848	5.198	0.568	----	----	----	----	----	----	5.765
774	3.232	564.21	5.625	5.188	0.289	----	----	----	----	----	----	5.476
777	3.114	564.17	5.473	5.151	0.163	----	----	----	----	----	----	5.314
780	2.996	564.13	5.337	5.110	0.068	----	----	----	----	----	----	5.178
783	2.884	564.09	5.221	5.063	----	----	----	----	----	----	----	5.063
786	2.786	564.05	5.153	5.003	----	----	----	----	----	----	----	5.003
789	2.710	564.01	5.086	4.942	----	----	----	----	----	----	----	4.942
792	2.643	563.97	5.011	4.873	----	----	----	----	----	----	----	4.873
795	2.579	563.92	4.935	4.801	----	----	----	----	----	----	----	4.801

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Hydrograph Discharge Table

Time (min)	Inflow cfs	Elevation ft	Civ A cfs	Civ B cfs	Civ C cfs	PfRsr cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	Outflow cfs
798	2.516	563.88	4.859	4.728	----	----	----	----	----	----	----	4.728
801	2.452	563.83	4.784	4.654	----	----	----	----	----	----	----	4.654
804	2.388	563.79	4.710	4.580	----	----	----	----	----	----	----	4.580
807	2.325	563.74	4.637	4.504	----	----	----	----	----	----	----	4.504
810	2.261	563.70	4.564	4.428	----	----	----	----	----	----	----	4.428
813	2.199	563.65	4.493	4.350	----	----	----	----	----	----	----	4.350
816	2.143	563.61	4.422	4.273	----	----	----	----	----	----	----	4.273
819	2.093	563.57	4.303	4.200	----	----	----	----	----	----	----	4.200
822	2.046	563.53	4.168	4.129	----	----	----	----	----	----	----	4.129
825	2.001	563.48	4.061	4.080	----	----	----	----	----	----	----	4.080
828	1.955	563.44	3.997	3.992	----	----	----	----	----	----	----	3.992
831	1.910	563.40	3.933	3.925	----	----	----	----	----	----	----	3.925
834	1.864	563.36	3.871	3.842	----	----	----	----	----	----	----	3.842
837	1.819	563.32	3.811	3.761	----	----	----	----	----	----	----	3.761
840	1.773	563.28	3.752	3.679	----	----	----	----	----	----	----	3.679
843	1.731	563.24	3.695	3.596	----	----	----	----	----	----	----	3.596
846	1.697	563.21	3.639	3.515	----	----	----	----	----	----	----	3.515
849	1.673	563.17	3.540	3.450	----	----	----	----	----	----	----	3.450
852	1.655	563.13	3.437	3.389	----	----	----	----	----	----	----	3.389
855	1.640	563.10	3.338	3.328	----	----	----	----	----	----	----	3.328
858	1.624	563.06	3.290	3.246	----	----	----	----	----	----	----	3.246
861	1.608	563.03	3.245	3.166	----	----	----	----	----	----	----	3.166
864	1.592	563.00	3.201	3.090	----	----	----	----	----	----	----	3.090
867	1.576	562.92	2.976	2.923	----	----	----	----	----	----	----	2.923
870	1.560	562.84	2.778	2.690	----	----	----	----	----	----	----	2.690
873	1.544	562.78	2.574	2.472	----	----	----	----	----	----	----	2.472
876	1.528	562.73	2.326	2.288	----	----	----	----	----	----	----	2.288
879	1.512	562.69	2.140	2.139	----	----	----	----	----	----	----	2.139
882	1.497	562.65	2.024	2.022	----	----	----	----	----	----	----	2.021
885	1.481	562.62	1.927	1.923	----	----	----	----	----	----	----	1.923
888	1.465	562.60	1.846	1.840	----	----	----	----	----	----	----	1.839
891	1.449	562.58	1.780	1.759	----	----	----	----	----	----	----	1.759
894	1.433	562.56	1.726	1.692	----	----	----	----	----	----	----	1.692
897	1.417	562.55	1.680	1.635	----	----	----	----	----	----	----	1.635
900	1.401	562.54	1.642	1.587	----	----	----	----	----	----	----	1.587
903	1.385	562.52	1.608	1.546	----	----	----	----	----	----	----	1.546
906	1.369	562.52	1.580	1.511	----	----	----	----	----	----	----	1.511
909	1.353	562.51	1.554	1.479	----	----	----	----	----	----	----	1.479
912	1.337	562.50	1.531	1.451	----	----	----	----	----	----	----	1.451
915	1.321	562.49	1.505	1.428	----	----	----	----	----	----	----	1.428
918	1.305	562.49	1.479	1.406	----	----	----	----	----	----	----	1.406
921	1.289	562.48	1.456	1.386	----	----	----	----	----	----	----	1.386
924	1.274	562.48	1.432	1.366	----	----	----	----	----	----	----	1.366
927	1.258	562.47	1.410	1.347	----	----	----	----	----	----	----	1.347
930	1.242	562.46	1.389	1.329	----	----	----	----	----	----	----	1.329
933	1.226	562.46	1.368	1.311	----	----	----	----	----	----	----	1.311
936	1.210	562.45	1.347	1.293	----	----	----	----	----	----	----	1.293
939	1.194	562.45	1.327	1.276	----	----	----	----	----	----	----	1.276
942	1.178	562.44	1.307	1.259	----	----	----	----	----	----	----	1.259
945	1.162	562.44	1.288	1.242	----	----	----	----	----	----	----	1.242
948	1.146	562.43	1.268	1.225	----	----	----	----	----	----	----	1.225
951	1.130	562.43	1.249	1.209	----	----	----	----	----	----	----	1.209
954	1.114	562.43	1.230	1.192	----	----	----	----	----	----	----	1.193
957	1.098	562.42	1.211	1.176	----	----	----	----	----	----	----	1.176

Continues on next page...

Hydrograph Discharge Table

Time (min)	Inflow cfs	Elevation ft	Civ A cfs	Civ B cfs	Civ C cfs	PfRsr cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	Outflow cfs
960	1.082	562.42	1.192	1.160	----	----	----	----	----	----	----	1.160
963	1.067	562.41	1.173	1.144	----	----	----	----	----	----	----	1.144
966	1.055	562.41	1.155	1.128	----	----	----	----	----	----	----	1.128
969	1.047	562.40	1.138	1.114	----	----	----	----	----	----	----	1.114
972	1.040	562.40	1.123	1.101	----	----	----	----	----	----	----	1.101
975	1.035	562.40	1.112	1.089	----	----	----	----	----	----	----	1.089
978	1.029	562.39	1.102	1.079	----	----	----	----	----	----	----	1.079
981	1.023	562.39	1.093	1.069	----	----	----	----	----	----	----	1.069
984	1.018	562.39	1.084	1.061	----	----	----	----	----	----	----	1.060
987	1.012	562.38	1.076	1.052	----	----	----	----	----	----	----	1.052
990	1.006	562.38	1.069	1.044	----	----	----	----	----	----	----	1.044
993	1.001	562.38	1.061	1.037	----	----	----	----	----	----	----	1.037
996	0.995	562.38	1.054	1.030	----	----	----	----	----	----	----	1.030
999	0.989	562.37	1.048	1.023	----	----	----	----	----	----	----	1.023
1002	0.984	562.37	1.041	1.016	----	----	----	----	----	----	----	1.016
1005	0.978	562.37	1.035	1.010	----	----	----	----	----	----	----	1.010
1008	0.972	562.37	1.029	1.004	----	----	----	----	----	----	----	1.004
1011	0.966	562.37	1.023	0.997	----	----	----	----	----	----	----	0.997
1014	0.961	562.37	1.017	0.991	----	----	----	----	----	----	----	0.991
1017	0.955	562.36	1.011	0.985	----	----	----	----	----	----	----	0.985
1020	0.949	562.36	1.005	0.979	----	----	----	----	----	----	----	0.979
1023	0.944	562.36	0.999	0.973	----	----	----	----	----	----	----	0.973
1026	0.938	562.36	0.993	0.967	----	----	----	----	----	----	----	0.967
1029	0.932	562.36	0.988	0.962	----	----	----	----	----	----	----	0.962
1032	0.927	562.35	0.982	0.956	----	----	----	----	----	----	----	0.956
1035	0.921	562.35	0.976	0.950	----	----	----	----	----	----	----	0.950
1038	0.915	562.35	0.970	0.944	----	----	----	----	----	----	----	0.944
1041	0.910	562.35	0.965	0.939	----	----	----	----	----	----	----	0.938
1044	0.904	562.35	0.959	0.933	----	----	----	----	----	----	----	0.933
1047	0.898	562.35	0.954	0.927	----	----	----	----	----	----	----	0.927
1050	0.892	562.34	0.948	0.921	----	----	----	----	----	----	----	0.921
1053	0.887	562.34	0.942	0.915	----	----	----	----	----	----	----	0.915
1056	0.881	562.34	0.937	0.910	----	----	----	----	----	----	----	0.910
1059	0.875	562.34	0.931	0.904	----	----	----	----	----	----	----	0.904
1062	0.870	562.34	0.926	0.898	----	----	----	----	----	----	----	0.898
1065	0.864	562.34	0.920	0.893	----	----	----	----	----	----	----	0.893
1068	0.858	562.33	0.914	0.887	----	----	----	----	----	----	----	0.887
1071	0.852	562.33	0.909	0.881	----	----	----	----	----	----	----	0.881
1074	0.847	562.33	0.903	0.875	----	----	----	----	----	----	----	0.875
1077	0.841	562.33	0.898	0.870	----	----	----	----	----	----	----	0.870
1080	0.835	562.33	0.892	0.864	----	----	----	----	----	----	----	0.864
1083	0.830	562.33	0.887	0.858	----	----	----	----	----	----	----	0.858
1086	0.824	562.32	0.881	0.853	----	----	----	----	----	----	----	0.853
1089	0.818	562.32	0.875	0.847	----	----	----	----	----	----	----	0.847
1092	0.813	562.32	0.870	0.841	----	----	----	----	----	----	----	0.841
1095	0.807	562.32	0.864	0.836	----	----	----	----	----	----	----	0.836
1098	0.801	562.32	0.859	0.830	----	----	----	----	----	----	----	0.830
1101	0.795	562.31	0.853	0.824	----	----	----	----	----	----	----	0.824
1104	0.790	562.31	0.847	0.818	----	----	----	----	----	----	----	0.818
1107	0.784	562.31	0.842	0.813	----	----	----	----	----	----	----	0.813
1110	0.778	562.31	0.836	0.807	----	----	----	----	----	----	----	0.807
1113	0.773	562.31	0.831	0.801	----	----	----	----	----	----	----	0.801
1116	0.767	562.31	0.825	0.796	----	----	----	----	----	----	----	0.796
1119	0.761	562.30	0.819	0.790	----	----	----	----	----	----	----	0.790

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Hydrograph Discharge Table

Time (min)	Inflow cfs	Elevation ft	Civ A cfs	Civ B cfs	Civ C cfs	PFRsr cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	Outflow cfs
1122	0.755	562.30	0.814	0.784	----	----	----	----	----	----	----	0.784
1125	0.750	562.30	0.808	0.778	----	----	----	----	----	----	----	0.778
1128	0.744	562.30	0.803	0.773	----	----	----	----	----	----	----	0.773
1131	0.738	562.30	0.798	0.768	----	----	----	----	----	----	----	0.768
1134	0.733	562.30	0.792	0.763	----	----	----	----	----	----	----	0.763
1137	0.727	562.29	0.786	0.758	----	----	----	----	----	----	----	0.758
1140	0.721	562.29	0.781	0.753	----	----	----	----	----	----	----	0.753
1143	0.715	562.29	0.775	0.748	----	----	----	----	----	----	----	0.748
1146	0.710	562.29	0.769	0.743	----	----	----	----	----	----	----	0.743
1149	0.704	562.29	0.763	0.737	----	----	----	----	----	----	----	0.737
1152	0.698	562.28	0.757	0.732	----	----	----	----	----	----	----	0.732
1155	0.693	562.28	0.751	0.726	----	----	----	----	----	----	----	0.726
1158	0.687	562.28	0.745	0.721	----	----	----	----	----	----	----	0.721
1161	0.681	562.28	0.738	0.715	----	----	----	----	----	----	----	0.715
1164	0.675	562.28	0.732	0.710	----	----	----	----	----	----	----	0.710
1167	0.670	562.27	0.726	0.704	----	----	----	----	----	----	----	0.704
1170	0.664	562.27	0.720	0.698	----	----	----	----	----	----	----	0.698
1173	0.658	562.27	0.714	0.693	----	----	----	----	----	----	----	0.693
1176	0.653	562.27	0.707	0.687	----	----	----	----	----	----	----	0.687
1179	0.647	562.27	0.701	0.681	----	----	----	----	----	----	----	0.681
1182	0.641	562.26	0.695	0.676	----	----	----	----	----	----	----	0.676
1185	0.635	562.26	0.688	0.670	----	----	----	----	----	----	----	0.670
1188	0.630	562.26	0.682	0.664	----	----	----	----	----	----	----	0.664
1191	0.624	562.26	0.676	0.659	----	----	----	----	----	----	----	0.659
1194	0.618	562.25	0.669	0.653	----	----	----	----	----	----	----	0.653
1197	0.613	562.25	0.663	0.647	----	----	----	----	----	----	----	0.647
1200	0.607	562.25	0.657	0.642	----	----	----	----	----	----	----	0.642
1203	0.602	562.25	0.651	0.636	----	----	----	----	----	----	----	0.636
1206	0.598	562.25	0.644	0.631	----	----	----	----	----	----	----	0.630
1209	0.595	562.24	0.638	0.625	----	----	----	----	----	----	----	0.625
1212	0.594	562.24	0.633	0.621	----	----	----	----	----	----	----	0.621
1215	0.593	562.24	0.629	0.616	----	----	----	----	----	----	----	0.617
1218	0.592	562.24	0.625	0.613	----	----	----	----	----	----	----	0.613
1221	0.590	562.24	0.621	0.610	----	----	----	----	----	----	----	0.610
1224	0.589	562.24	0.618	0.607	----	----	----	----	----	----	----	0.607
1227	0.588	562.24	0.615	0.604	----	----	----	----	----	----	----	0.604
1230	0.587	562.24	0.612	0.601	----	----	----	----	----	----	----	0.601
1233	0.586	562.23	0.610	0.599	----	----	----	----	----	----	----	0.599
1236	0.585	562.23	0.607	0.597	----	----	----	----	----	----	----	0.597
1239	0.584	562.23	0.605	0.595	----	----	----	----	----	----	----	0.595
1242	0.582	562.23	0.603	0.593	----	----	----	----	----	----	----	0.593
1245	0.581	562.23	0.601	0.592	----	----	----	----	----	----	----	0.592
1248	0.580	562.23	0.599	0.590	----	----	----	----	----	----	----	0.590
1251	0.579	562.23	0.598	0.588	----	----	----	----	----	----	----	0.588
1254	0.578	562.23	0.596	0.587	----	----	----	----	----	----	----	0.587
1257	0.577	562.23	0.594	0.585	----	----	----	----	----	----	----	0.585
1260	0.576	562.23	0.593	0.584	----	----	----	----	----	----	----	0.584
1263	0.575	562.23	0.591	0.583	----	----	----	----	----	----	----	0.583
1266	0.573	562.23	0.590	0.581	----	----	----	----	----	----	----	0.581
1269	0.572	562.23	0.588	0.580	----	----	----	----	----	----	----	0.580
1272	0.571	562.23	0.587	0.579	----	----	----	----	----	----	----	0.579
1275	0.570	562.23	0.586	0.578	----	----	----	----	----	----	----	0.578
1278	0.569	562.23	0.584	0.576	----	----	----	----	----	----	----	0.576
1281	0.568	562.23	0.583	0.575	----	----	----	----	----	----	----	0.575

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Hydrograph Discharge Table

Time (min)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	PfRsr cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	Outflow cfs
1284	0.567	562.23	0.582	0.574	----	----	----	----	----	----	----	0.574
1287	0.565	562.22	0.580	0.573	----	----	----	----	----	----	----	0.573
1290	0.564	562.22	0.579	0.572	----	----	----	----	----	----	----	0.572
1293	0.563	562.22	0.578	0.570	----	----	----	----	----	----	----	0.570
1296	0.562	562.22	0.576	0.569	----	----	----	----	----	----	----	0.569
1299	0.561	562.22	0.575	0.568	----	----	----	----	----	----	----	0.568
1302	0.560	562.22	0.574	0.567	----	----	----	----	----	----	----	0.567
1305	0.559	562.22	0.572	0.566	----	----	----	----	----	----	----	0.566
1308	0.557	562.22	0.571	0.564	----	----	----	----	----	----	----	0.564
1311	0.556	562.22	0.570	0.563	----	----	----	----	----	----	----	0.563
1314	0.555	562.22	0.569	0.562	----	----	----	----	----	----	----	0.562
1317	0.554	562.22	0.567	0.561	----	----	----	----	----	----	----	0.561
1320	0.553	562.22	0.566	0.560	----	----	----	----	----	----	----	0.560
1323	0.552	562.22	0.565	0.559	----	----	----	----	----	----	----	0.559
1326	0.551	562.22	0.563	0.558	----	----	----	----	----	----	----	0.558
1329	0.549	562.22	0.562	0.557	----	----	----	----	----	----	----	0.556
1332	0.548	562.22	0.561	0.556	----	----	----	----	----	----	----	0.555
1335	0.547	562.22	0.560	0.554	----	----	----	----	----	----	----	0.554
1338	0.546	562.22	0.558	0.553	----	----	----	----	----	----	----	0.553
1341	0.545	562.22	0.557	0.552	----	----	----	----	----	----	----	0.552
1344	0.544	562.22	0.556	0.551	----	----	----	----	----	----	----	0.551
1347	0.543	562.22	0.555	0.550	----	----	----	----	----	----	----	0.550
1350	0.541	562.22	0.553	0.548	----	----	----	----	----	----	----	0.548
1353	0.540	562.22	0.552	0.547	----	----	----	----	----	----	----	0.547
1356	0.539	562.22	0.551	0.546	----	----	----	----	----	----	----	0.546
1359	0.538	562.21	0.549	0.545	----	----	----	----	----	----	----	0.545
1362	0.537	562.21	0.548	0.544	----	----	----	----	----	----	----	0.544
1365	0.536	562.21	0.547	0.543	----	----	----	----	----	----	----	0.543
1368	0.535	562.21	0.546	0.542	----	----	----	----	----	----	----	0.542
1371	0.534	562.21	0.544	0.541	----	----	----	----	----	----	----	0.540
1374	0.532	562.21	0.543	0.539	----	----	----	----	----	----	----	0.539
1377	0.531	562.21	0.542	0.538	----	----	----	----	----	----	----	0.538
1380	0.530	562.21	0.541	0.537	----	----	----	----	----	----	----	0.537
1383	0.529	562.21	0.539	0.536	----	----	----	----	----	----	----	0.536
1386	0.528	562.21	0.538	0.535	----	----	----	----	----	----	----	0.535
1389	0.527	562.21	0.537	0.534	----	----	----	----	----	----	----	0.534
1392	0.526	562.21	0.535	0.532	----	----	----	----	----	----	----	0.532
1395	0.524	562.21	0.534	0.531	----	----	----	----	----	----	----	0.531
1398	0.523	562.21	0.533	0.530	----	----	----	----	----	----	----	0.530
1401	0.522	562.21	0.532	0.529	----	----	----	----	----	----	----	0.529
1404	0.521	562.21	0.531	0.528	----	----	----	----	----	----	----	0.528
1407	0.520	562.21	0.529	0.527	----	----	----	----	----	----	----	0.527
1410	0.519	562.21	0.528	0.526	----	----	----	----	----	----	----	0.526
1413	0.518	562.21	0.527	0.524	----	----	----	----	----	----	----	0.525
1416	0.516	562.21	0.525	0.523	----	----	----	----	----	----	----	0.523
1419	0.515	562.21	0.524	0.522	----	----	----	----	----	----	----	0.522
1422	0.514	562.21	0.523	0.521	----	----	----	----	----	----	----	0.521
1425	0.513	562.21	0.522	0.520	----	----	----	----	----	----	----	0.520
1428	0.512	562.21	0.520	0.519	----	----	----	----	----	----	----	0.519
1431	0.511	562.20	0.519	0.518	----	----	----	----	----	----	----	0.518
1434	0.510	562.20	0.518	0.517	----	----	----	----	----	----	----	0.517
1437	0.508	562.20	0.517	0.516	----	----	----	----	----	----	----	0.515
1440	0.507	562.20	0.515	0.514	----	----	----	----	----	----	----	0.514
1443	0.405	562.20	0.506	0.505	----	----	----	----	----	----	----	0.505

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Hydrograph Discharge Table

Time (min)	Inflow cfs	Elevation ft	Civ A cfs	Civ B cfs	Civ C cfs	PfRsr cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	Outflow cfs
1446	0.202	562.19	0.481	0.480	-----	-----	-----	-----	-----	-----	-----	0.480
1449	0.067	562.17	0.439	0.436	-----	-----	-----	-----	-----	-----	-----	0.436
1452	0.000	562.15	0.390	0.385	-----	-----	-----	-----	-----	-----	-----	0.385

...End

Hydrograph Report

Hydraflow Hydrographs by Intelliolve v9.2

Friday, Sep 9, 2016

Hyd. No. 5

Pr. thr Rev Basin LFB

Hydrograph type	= Reservoir	Peak discharge	= 43.05 cfs
Storm frequency	= 100 yrs	Time to peak	= 723 min
Time interval	= 3 min	Hyd. volume	= 132,002 cuft
Inflow hyd. No.	= 3 - Proposed to Revise Basin	Reservoir name	= Revised Basin LFB
Max. Elevation	= 566.62 ft	Max. Storage	= 40,722 cuft

Storage Indication method used

(Printed values are 100% of Op.)

Hydrograph Discharge Table

Time (min)	Inflow cfs	Elevation ft	Civ A cfs	Civ B cfs	Civ C cfs	PfRsr cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	Outflow cfs
603	1.468	564.23	0.461	----	0.437	----	----	----	----	----	----	0.437
606	1.509	564.25	0.584	----	0.556	----	----	----	----	----	----	0.556
609	1.555	564.26	0.699	----	0.666	----	----	----	----	----	----	0.666
612	1.605	564.28	0.807	----	0.770	----	----	----	----	----	----	0.770
615	1.656	564.29	0.908	----	0.867	----	----	----	----	----	----	0.867
618	1.707	564.31	1.016	----	0.974	----	----	----	----	----	----	0.974
621	1.759	564.32	1.127	----	1.089	----	----	----	----	----	----	1.089
624	1.811	564.33	1.229	----	1.194	----	----	----	----	----	----	1.194
627	1.863	564.34	1.323	----	1.291	----	----	----	----	----	----	1.291
630	1.916	564.35	1.410	----	1.381	----	----	----	----	----	----	1.381
633	1.972	564.36	1.493	----	1.466	----	----	----	----	----	----	1.466
636	2.038	564.37	1.572	----	1.548	----	----	----	----	----	----	1.548
639	2.115	564.38	1.650	----	1.628	----	----	----	----	----	----	1.627
642	2.198	564.39	1.727	----	1.707	----	----	----	----	----	----	1.707
645	2.284	564.40	1.805	----	1.788	----	----	----	----	----	----	1.788
648	2.371	564.40	1.897	----	1.877	----	----	----	----	----	----	1.877
651	2.458	564.41	2.003	----	1.973	----	----	----	----	----	----	1.973
654	2.546	564.42	2.107	----	2.068	----	----	----	----	----	----	2.068
657	2.634	564.43	2.210	----	2.161	----	----	----	----	----	----	2.162
660	2.723	564.44	2.312	----	2.254	----	----	----	----	----	----	2.254
663	2.824	564.45	2.414	----	2.347	----	----	----	----	----	----	2.347
666	2.959	564.46	2.521	----	2.445	----	----	----	----	----	----	2.445
669	3.133	564.47	2.640	----	2.563	----	----	----	----	----	----	2.553
672	3.330	564.48	2.773	----	2.675	----	----	----	----	----	----	2.675
675	3.537	564.49	2.923	----	2.811	----	----	----	----	----	----	2.811
678	3.746	564.50	3.086	----	2.963	----	----	----	----	----	----	2.963
681	3.956	564.52	3.254	----	3.143	----	----	----	----	----	----	3.143
684	4.168	564.53	3.428	----	3.330	----	----	----	----	----	----	3.330
687	4.381	564.55	3.607	----	3.522	----	----	----	----	----	----	3.522
690	4.596	564.56	3.791	----	3.718	----	----	----	----	----	----	3.718
693	5.288	564.58	4.023	----	3.967	----	----	----	----	----	----	3.966
696	7.418	564.62	4.538	----	4.475	----	----	----	----	----	----	4.476
699	11.17	564.70	5.697	----	5.552	----	----	----	----	----	----	5.552
702	15.96	564.82	7.606	----	7.504	----	----	----	----	----	----	7.504
705	21.17	564.99	10.59	----	10.45	----	----	----	----	----	----	10.45
708	27.40	565.18	14.16	----	14.10	----	----	----	----	----	----	14.10
711	36.55	565.43	18.67	----	18.65	----	----	----	----	----	----	18.65
714	49.02	565.78	21.84	----	21.84	----	----	----	----	----	----	21.84
717	68.72 <<	566.21	28.72	----	24.58	----	4.136	----	----	----	----	28.72
720	54.51	566.52	40.57	----	23.09	----	17.48	----	----	----	----	40.57
723	37.29	566.58 <<	43.05	----	22.46	----	20.59	----	----	----	----	43.05 <<

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Hydrograph Discharge Table

Time (min)	Inflow cfs	Elevation ft	Civ A cfs	Civ B cfs	Civ C cfs	PfRsr cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	Outflow cfs
726	20.16	566.42	36.51	----	23.89	----	12.62	----	----	----	----	36.51
729	10.76	566.19	27.95	----	24.56	----	3.386	----	----	----	----	27.95
732	8.008	565.96	23.37	----	23.37	----	----	----	----	----	----	23.37
735	7.481	565.72	21.24	----	21.23	----	----	----	----	----	----	21.23
738	6.968	565.52	19.14	----	19.14	----	----	----	----	----	----	19.14
741	6.453	565.34	17.28	----	17.23	----	----	----	----	----	----	17.23
744	5.938	565.19	14.22	----	14.16	----	----	----	----	----	----	14.16
747	5.422	565.07	12.04	----	11.90	----	----	----	----	----	----	11.90
750	4.905	564.97	10.28	----	10.14	----	----	----	----	----	----	10.14
753	4.429	564.89	8.807	----	8.650	----	----	----	----	----	----	8.651
756	4.071	564.82	7.618	----	7.516	----	----	----	----	----	----	7.516
759	3.847	564.77	6.741	----	6.634	----	----	----	----	----	----	6.635
762	3.703	564.72	6.080	----	5.944	----	----	----	----	----	----	5.944
765	3.585	564.69	5.540	----	5.406	----	----	----	----	----	----	5.406
768	3.468	564.66	5.088	----	4.986	----	----	----	----	----	----	4.986
771	3.350	564.63	4.708	----	4.634	----	----	----	----	----	----	4.634
774	3.232	564.61	4.385	----	4.334	----	----	----	----	----	----	4.334
777	3.114	564.59	4.135	----	4.086	----	----	----	----	----	----	4.086
780	2.996	564.57	3.939	----	3.877	----	----	----	----	----	----	3.877
783	2.884	564.56	3.762	----	3.687	----	----	----	----	----	----	3.687
786	2.788	564.55	3.600	----	3.514	----	----	----	----	----	----	3.514
789	2.710	564.53	3.456	----	3.359	----	----	----	----	----	----	3.359
792	2.643	564.52	3.326	----	3.220	----	----	----	----	----	----	3.220
795	2.579	564.51	3.211	----	3.097	----	----	----	----	----	----	3.097
798	2.516	564.50	3.106	----	2.985	----	----	----	----	----	----	2.985
801	2.452	564.50	3.009	----	2.889	----	----	----	----	----	----	2.889
804	2.388	564.49	2.916	----	2.805	----	----	----	----	----	----	2.805
807	2.325	564.48	2.828	----	2.725	----	----	----	----	----	----	2.725
810	2.261	564.47	2.744	----	2.648	----	----	----	----	----	----	2.647
813	2.199	564.47	2.661	----	2.573	----	----	----	----	----	----	2.572
816	2.143	564.46	2.582	----	2.500	----	----	----	----	----	----	2.500
819	2.093	564.45	2.506	----	2.432	----	----	----	----	----	----	2.432
822	2.046	564.45	2.435	----	2.367	----	----	----	----	----	----	2.367
825	2.001	564.44	2.368	----	2.305	----	----	----	----	----	----	2.305
828	1.955	564.44	2.303	----	2.247	----	----	----	----	----	----	2.247
831	1.910	564.43	2.241	----	2.190	----	----	----	----	----	----	2.190
834	1.864	564.43	2.182	----	2.136	----	----	----	----	----	----	2.136
837	1.819	564.42	2.124	----	2.083	----	----	----	----	----	----	2.083
840	1.773	564.42	2.067	----	2.031	----	----	----	----	----	----	2.031
843	1.731	564.41	2.012	----	1.981	----	----	----	----	----	----	1.981
846	1.697	564.41	1.959	----	1.933	----	----	----	----	----	----	1.933
849	1.673	564.41	1.911	----	1.889	----	----	----	----	----	----	1.889
852	1.655	564.40	1.866	----	1.848	----	----	----	----	----	----	1.849
855	1.640	564.40	1.832	----	1.815	----	----	----	----	----	----	1.815
858	1.624	564.40	1.805	----	1.788	----	----	----	----	----	----	1.788
861	1.608	564.39	1.780	----	1.762	----	----	----	----	----	----	1.762
864	1.592	564.39	1.756	----	1.737	----	----	----	----	----	----	1.737
867	1.576	564.39	1.734	----	1.714	----	----	----	----	----	----	1.714
870	1.560	564.38	1.712	----	1.692	----	----	----	----	----	----	1.692
873	1.544	564.38	1.691	----	1.671	----	----	----	----	----	----	1.671
876	1.528	564.38	1.672	----	1.651	----	----	----	----	----	----	1.651
879	1.512	564.38	1.653	----	1.631	----	----	----	----	----	----	1.631
882	1.497	564.38	1.634	----	1.612	----	----	----	----	----	----	1.612
885	1.481	564.37	1.617	----	1.594	----	----	----	----	----	----	1.593

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Hydrograph Discharge Table

Time (min)	Inflow cfs	Elevation ft	Civ A cfs	Civ B cfs	Civ C cfs	PfRsr cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	Outflow cfs
888	1.465	564.37	1.599	-----	1.575	-----	-----	-----	-----	-----	-----	1.575
891	1.449	564.37	1.581	-----	1.557	-----	-----	-----	-----	-----	-----	1.557
894	1.433	564.37	1.565	-----	1.540	-----	-----	-----	-----	-----	-----	1.540
897	1.417	564.37	1.548	-----	1.522	-----	-----	-----	-----	-----	-----	1.522
900	1.401	564.36	1.531	-----	1.505	-----	-----	-----	-----	-----	-----	1.505
903	1.385	564.36	1.515	-----	1.488	-----	-----	-----	-----	-----	-----	1.488
906	1.369	564.36	1.498	-----	1.472	-----	-----	-----	-----	-----	-----	1.472
909	1.353	564.36	1.482	-----	1.455	-----	-----	-----	-----	-----	-----	1.455
912	1.337	564.36	1.466	-----	1.438	-----	-----	-----	-----	-----	-----	1.438
915	1.321	564.36	1.450	-----	1.422	-----	-----	-----	-----	-----	-----	1.422
918	1.305	564.35	1.434	-----	1.406	-----	-----	-----	-----	-----	-----	1.406
921	1.289	564.35	1.419	-----	1.389	-----	-----	-----	-----	-----	-----	1.389
924	1.274	564.35	1.403	-----	1.373	-----	-----	-----	-----	-----	-----	1.373
927	1.258	564.35	1.387	-----	1.357	-----	-----	-----	-----	-----	-----	1.357
930	1.242	564.35	1.371	-----	1.341	-----	-----	-----	-----	-----	-----	1.341
933	1.226	564.34	1.356	-----	1.325	-----	-----	-----	-----	-----	-----	1.324
935	1.210	564.34	1.340	-----	1.308	-----	-----	-----	-----	-----	-----	1.308
939	1.194	564.34	1.324	-----	1.292	-----	-----	-----	-----	-----	-----	1.292
942	1.178	564.34	1.308	-----	1.276	-----	-----	-----	-----	-----	-----	1.276
945	1.162	564.34	1.293	-----	1.260	-----	-----	-----	-----	-----	-----	1.260
948	1.146	564.34	1.278	-----	1.244	-----	-----	-----	-----	-----	-----	1.244
951	1.130	564.33	1.262	-----	1.228	-----	-----	-----	-----	-----	-----	1.228
954	1.114	564.33	1.247	-----	1.212	-----	-----	-----	-----	-----	-----	1.212
957	1.098	564.33	1.231	-----	1.196	-----	-----	-----	-----	-----	-----	1.196
960	1.082	564.33	1.216	-----	1.180	-----	-----	-----	-----	-----	-----	1.180
963	1.067	564.33	1.200	-----	1.164	-----	-----	-----	-----	-----	-----	1.164
966	1.055	564.33	1.185	-----	1.148	-----	-----	-----	-----	-----	-----	1.149
969	1.047	564.32	1.171	-----	1.134	-----	-----	-----	-----	-----	-----	1.134
972	1.040	564.32	1.158	-----	1.120	-----	-----	-----	-----	-----	-----	1.120
975	1.035	564.32	1.145	-----	1.108	-----	-----	-----	-----	-----	-----	1.108
978	1.029	564.32	1.134	-----	1.096	-----	-----	-----	-----	-----	-----	1.096
981	1.023	564.32	1.124	-----	1.086	-----	-----	-----	-----	-----	-----	1.086
984	1.018	564.32	1.114	-----	1.076	-----	-----	-----	-----	-----	-----	1.076
987	1.012	564.32	1.106	-----	1.067	-----	-----	-----	-----	-----	-----	1.067
990	1.006	564.32	1.097	-----	1.058	-----	-----	-----	-----	-----	-----	1.058
993	1.001	564.31	1.089	-----	1.049	-----	-----	-----	-----	-----	-----	1.050
995	0.995	564.31	1.081	-----	1.042	-----	-----	-----	-----	-----	-----	1.042
999	0.989	564.31	1.074	-----	1.034	-----	-----	-----	-----	-----	-----	1.034
1002	0.984	564.31	1.067	-----	1.027	-----	-----	-----	-----	-----	-----	1.027
1005	0.978	564.31	1.061	-----	1.020	-----	-----	-----	-----	-----	-----	1.020
1008	0.972	564.31	1.054	-----	1.013	-----	-----	-----	-----	-----	-----	1.013
1011	0.966	564.31	1.047	-----	1.006	-----	-----	-----	-----	-----	-----	1.007
1014	0.961	564.31	1.041	-----	1.000	-----	-----	-----	-----	-----	-----	1.000
1017	0.955	564.31	1.035	-----	0.994	-----	-----	-----	-----	-----	-----	0.994
1020	0.949	564.31	1.029	-----	0.987	-----	-----	-----	-----	-----	-----	0.988
1023	0.944	564.31	1.023	-----	0.981	-----	-----	-----	-----	-----	-----	0.981
1026	0.938	564.31	1.017	-----	0.975	-----	-----	-----	-----	-----	-----	0.975
1029	0.932	564.31	1.011	-----	0.969	-----	-----	-----	-----	-----	-----	0.969
1032	0.927	564.31	1.005	-----	0.963	-----	-----	-----	-----	-----	-----	0.963
1035	0.921	564.30	0.999	-----	0.957	-----	-----	-----	-----	-----	-----	0.957
1038	0.915	564.30	0.993	-----	0.951	-----	-----	-----	-----	-----	-----	0.951
1041	0.910	564.30	0.988	-----	0.945	-----	-----	-----	-----	-----	-----	0.945
1044	0.904	564.30	0.982	-----	0.939	-----	-----	-----	-----	-----	-----	0.940
1047	0.898	564.30	0.976	-----	0.934	-----	-----	-----	-----	-----	-----	0.934

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Hydrograph Discharge Table

Time (min)	Inflow cfs	Elevation ft	Civ A cfs	Civ B cfs	Civ C cfs	PfRsr cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	Outflow cfs
1050	0.892	564.30	0.971	----	0.928	----	----	----	----	----	----	0.928
1053	0.887	564.30	0.965	----	0.922	----	----	----	----	----	----	0.922
1056	0.881	564.30	0.960	----	0.916	----	----	----	----	----	----	0.916
1059	0.875	564.30	0.955	----	0.912	----	----	----	----	----	----	0.912
1062	0.870	564.30	0.950	----	0.907	----	----	----	----	----	----	0.907
1065	0.864	564.30	0.946	----	0.903	----	----	----	----	----	----	0.903
1068	0.858	564.30	0.940	----	0.898	----	----	----	----	----	----	0.898
1071	0.852	564.30	0.936	----	0.893	----	----	----	----	----	----	0.893
1074	0.847	564.30	0.931	----	0.888	----	----	----	----	----	----	0.888
1077	0.841	564.30	0.925	----	0.883	----	----	----	----	----	----	0.883
1080	0.835	564.29	0.920	----	0.878	----	----	----	----	----	----	0.878
1083	0.830	564.29	0.914	----	0.873	----	----	----	----	----	----	0.873
1086	0.824	564.29	0.909	----	0.868	----	----	----	----	----	----	0.868
1089	0.818	564.29	0.904	----	0.862	----	----	----	----	----	----	0.862
1092	0.813	564.29	0.898	----	0.857	----	----	----	----	----	----	0.857
1095	0.807	564.29	0.893	----	0.852	----	----	----	----	----	----	0.852
1098	0.801	564.29	0.887	----	0.846	----	----	----	----	----	----	0.846
1101	0.795	564.29	0.881	----	0.841	----	----	----	----	----	----	0.841
1104	0.790	564.29	0.875	----	0.835	----	----	----	----	----	----	0.835
1107	0.784	564.29	0.870	----	0.830	----	----	----	----	----	----	0.830
1110	0.778	564.29	0.864	----	0.824	----	----	----	----	----	----	0.824
1113	0.773	564.29	0.858	----	0.819	----	----	----	----	----	----	0.819
1116	0.767	564.28	0.852	----	0.813	----	----	----	----	----	----	0.813
1119	0.761	564.28	0.847	----	0.808	----	----	----	----	----	----	0.808
1122	0.755	564.28	0.841	----	0.802	----	----	----	----	----	----	0.802
1125	0.750	564.28	0.835	----	0.797	----	----	----	----	----	----	0.797
1128	0.744	564.28	0.829	----	0.791	----	----	----	----	----	----	0.791
1131	0.738	564.28	0.823	----	0.785	----	----	----	----	----	----	0.785
1134	0.733	564.28	0.817	----	0.779	----	----	----	----	----	----	0.780
1137	0.727	564.28	0.812	----	0.774	----	----	----	----	----	----	0.774
1140	0.721	564.28	0.806	----	0.768	----	----	----	----	----	----	0.768
1143	0.715	564.28	0.800	----	0.763	----	----	----	----	----	----	0.763
1146	0.710	564.28	0.794	----	0.757	----	----	----	----	----	----	0.757
1149	0.704	564.28	0.788	----	0.752	----	----	----	----	----	----	0.751
1152	0.698	564.27	0.782	----	0.746	----	----	----	----	----	----	0.746
1155	0.693	564.27	0.776	----	0.740	----	----	----	----	----	----	0.740
1158	0.687	564.27	0.770	----	0.734	----	----	----	----	----	----	0.734
1161	0.681	564.27	0.764	----	0.729	----	----	----	----	----	----	0.729
1164	0.675	564.27	0.758	----	0.723	----	----	----	----	----	----	0.723
1167	0.670	564.27	0.752	----	0.717	----	----	----	----	----	----	0.717
1170	0.664	564.27	0.747	----	0.712	----	----	----	----	----	----	0.712
1173	0.658	564.27	0.741	----	0.706	----	----	----	----	----	----	0.706
1176	0.653	564.27	0.735	----	0.700	----	----	----	----	----	----	0.700
1179	0.647	564.27	0.729	----	0.694	----	----	----	----	----	----	0.694
1182	0.641	564.27	0.723	----	0.689	----	----	----	----	----	----	0.689
1185	0.635	564.27	0.717	----	0.683	----	----	----	----	----	----	0.683
1188	0.630	564.26	0.711	----	0.677	----	----	----	----	----	----	0.677
1191	0.624	564.26	0.705	----	0.671	----	----	----	----	----	----	0.672
1194	0.618	564.26	0.699	----	0.666	----	----	----	----	----	----	0.666
1197	0.613	564.26	0.693	----	0.660	----	----	----	----	----	----	0.660
1200	0.607	564.26	0.687	----	0.655	----	----	----	----	----	----	0.654
1203	0.602	564.26	0.681	----	0.649	----	----	----	----	----	----	0.649
1206	0.598	564.26	0.675	----	0.643	----	----	----	----	----	----	0.643
1209	0.595	564.26	0.670	----	0.638	----	----	----	----	----	----	0.638

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Hydrograph Discharge Table

Time (min)	Inflow cfs	Elevation ft	Civ A cfs	Civ B cfs	Civ C cfs	PfRsr cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	Outflow cfs
1212	0.594	564.26	0.665	----	0.633	----	----	----	----	----	----	0.633
1215	0.593	564.26	0.660	----	0.628	----	----	----	----	----	----	0.629
1218	0.592	564.26	0.656	----	0.624	----	----	----	----	----	----	0.624
1221	0.590	564.26	0.652	----	0.621	----	----	----	----	----	----	0.621
1224	0.589	564.26	0.649	----	0.617	----	----	----	----	----	----	0.617
1227	0.588	564.26	0.645	----	0.614	----	----	----	----	----	----	0.614
1230	0.587	564.25	0.642	----	0.611	----	----	----	----	----	----	0.611
1233	0.586	564.25	0.639	----	0.608	----	----	----	----	----	----	0.608
1236	0.585	564.25	0.637	----	0.606	----	----	----	----	----	----	0.606
1239	0.584	564.25	0.634	----	0.603	----	----	----	----	----	----	0.603
1242	0.582	564.25	0.631	----	0.601	----	----	----	----	----	----	0.601
1245	0.581	564.25	0.629	----	0.599	----	----	----	----	----	----	0.599
1248	0.580	564.25	0.627	----	0.597	----	----	----	----	----	----	0.597
1251	0.579	564.25	0.625	----	0.595	----	----	----	----	----	----	0.595
1254	0.578	564.25	0.623	----	0.593	----	----	----	----	----	----	0.593
1257	0.577	564.25	0.622	----	0.591	----	----	----	----	----	----	0.591
1260	0.576	564.25	0.619	----	0.589	----	----	----	----	----	----	0.589
1263	0.575	564.25	0.618	----	0.588	----	----	----	----	----	----	0.588
1266	0.573	564.25	0.616	----	0.586	----	----	----	----	----	----	0.586
1269	0.572	564.25	0.615	----	0.585	----	----	----	----	----	----	0.585
1272	0.571	564.25	0.613	----	0.583	----	----	----	----	----	----	0.583
1275	0.570	564.25	0.612	----	0.582	----	----	----	----	----	----	0.582
1278	0.569	564.25	0.610	----	0.580	----	----	----	----	----	----	0.580
1281	0.568	564.25	0.609	----	0.579	----	----	----	----	----	----	0.579
1284	0.567	564.25	0.608	----	0.578	----	----	----	----	----	----	0.578
1287	0.565	564.25	0.608	----	0.577	----	----	----	----	----	----	0.576
1290	0.564	564.25	0.605	----	0.575	----	----	----	----	----	----	0.575
1293	0.563	564.25	0.603	----	0.574	----	----	----	----	----	----	0.574
1296	0.562	564.25	0.602	----	0.572	----	----	----	----	----	----	0.573
1299	0.561	564.25	0.601	----	0.571	----	----	----	----	----	----	0.571
1302	0.560	564.25	0.599	----	0.570	----	----	----	----	----	----	0.570
1305	0.559	564.25	0.598	----	0.569	----	----	----	----	----	----	0.669
1308	0.557	564.25	0.597	----	0.568	----	----	----	----	----	----	0.668
1311	0.556	564.25	0.596	----	0.566	----	----	----	----	----	----	0.666
1314	0.555	564.25	0.594	----	0.565	----	----	----	----	----	----	0.665
1317	0.554	564.25	0.593	----	0.564	----	----	----	----	----	----	0.664
1320	0.553	564.25	0.592	----	0.563	----	----	----	----	----	----	0.663
1323	0.552	564.25	0.591	----	0.562	----	----	----	----	----	----	0.662
1326	0.551	564.25	0.590	----	0.561	----	----	----	----	----	----	0.660
1329	0.549	564.25	0.588	----	0.569	----	----	----	----	----	----	0.659
1332	0.548	564.25	0.587	----	0.568	----	----	----	----	----	----	0.658
1335	0.547	564.25	0.586	----	0.567	----	----	----	----	----	----	0.657
1338	0.546	564.25	0.584	----	0.566	----	----	----	----	----	----	0.656
1341	0.545	564.25	0.583	----	0.564	----	----	----	----	----	----	0.655
1344	0.544	564.25	0.582	----	0.564	----	----	----	----	----	----	0.653
1347	0.543	564.25	0.581	----	0.562	----	----	----	----	----	----	0.652
1350	0.541	564.25	0.580	----	0.561	----	----	----	----	----	----	0.651
1353	0.540	564.25	0.578	----	0.560	----	----	----	----	----	----	0.650
1356	0.539	564.25	0.577	----	0.549	----	----	----	----	----	----	0.649
1359	0.538	564.25	0.576	----	0.548	----	----	----	----	----	----	0.648
1362	0.537	564.25	0.575	----	0.547	----	----	----	----	----	----	0.647
1365	0.536	564.25	0.574	----	0.545	----	----	----	----	----	----	0.645
1368	0.535	564.24	0.572	----	0.544	----	----	----	----	----	----	0.644
1371	0.534	564.24	0.571	----	0.543	----	----	----	----	----	----	0.643

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Hydrograph Discharge Table

Time (min)	Inflow cfs	Elevation ft	Civ A cfs	Civ B cfs	Civ C cfs	PfRsr cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	Out c
1374	0.532	564.24	0.570	-----	0.542	-----	-----	-----	-----	-----	-----	C
1377	0.531	564.24	0.569	-----	0.541	-----	-----	-----	-----	-----	-----	C
1380	0.530	564.24	0.568	-----	0.540	-----	-----	-----	-----	-----	-----	C
1383	0.529	564.24	0.566	-----	0.538	-----	-----	-----	-----	-----	-----	C
1386	0.528	564.24	0.565	-----	0.537	-----	-----	-----	-----	-----	-----	C
1389	0.527	564.24	0.564	-----	0.536	-----	-----	-----	-----	-----	-----	C
1392	0.526	564.24	0.563	-----	0.535	-----	-----	-----	-----	-----	-----	C
1395	0.524	564.24	0.562	-----	0.534	-----	-----	-----	-----	-----	-----	C
1398	0.523	564.24	0.560	-----	0.533	-----	-----	-----	-----	-----	-----	C
1401	0.522	564.24	0.560	-----	0.532	-----	-----	-----	-----	-----	-----	C
1404	0.521	564.24	0.558	-----	0.531	-----	-----	-----	-----	-----	-----	C
1407	0.520	564.24	0.557	-----	0.529	-----	-----	-----	-----	-----	-----	C
1410	0.519	564.24	0.556	-----	0.528	-----	-----	-----	-----	-----	-----	C
1413	0.518	564.24	0.555	-----	0.527	-----	-----	-----	-----	-----	-----	C
1416	0.516	564.24	0.554	-----	0.526	-----	-----	-----	-----	-----	-----	C
1419	0.515	564.24	0.552	-----	0.525	-----	-----	-----	-----	-----	-----	C
1422	0.514	564.24	0.551	-----	0.524	-----	-----	-----	-----	-----	-----	C
1425	0.513	564.24	0.550	-----	0.522	-----	-----	-----	-----	-----	-----	C
1428	0.512	564.24	0.549	-----	0.522	-----	-----	-----	-----	-----	-----	C
1431	0.511	564.24	0.548	-----	0.520	-----	-----	-----	-----	-----	-----	C
1434	0.510	564.24	0.546	-----	0.519	-----	-----	-----	-----	-----	-----	C
1437	0.508	564.24	0.545	-----	0.518	-----	-----	-----	-----	-----	-----	C
1440	0.507	564.24	0.544	-----	0.517	-----	-----	-----	-----	-----	-----	C
1443	0.405	564.24	0.537	-----	0.510	-----	-----	-----	-----	-----	-----	C
1446	0.202	564.24	0.513	-----	0.487	-----	-----	-----	-----	-----	-----	C
1449	0.067	564.23	0.471	-----	0.447	-----	-----	-----	-----	-----	-----	C

End

Pond Report

Hydraflow Hydrographs by Intellisolve v9.2

Friday, Sep 9, 2016

Pond No. 2 - Revised Basin LFB

Pond Data

Contours - User-defined contour areas. Conic method used for volume calculation. Beginning Elevation = 561.82 ft

Stage / Storage Table

Stage (ft)	Elevation (ft)	Contour area (sqft)	Incr. Storage (cuft)	Total storage (cuft)
0.00	561.82	00	0	0
0.18	562.00	46	3	3
1.18	563.00	8,265	2,976	2,976
2.18	564.00	9,470	8,860	11,836
3.18	565.00	10,743	10,099	21,937
4.18	566.00	12,062	11,405	33,342
5.18	567.00	13,488	12,777	46,119

Culvert / Orifice Structures

	[A]	[B]	[C]	[PrfRsr]
Rise (in)	= 36.00	Inactive	15.00	0.00
Span (in)	= 36.00	13.00	23.00	0.00
No. Barrels	= 1	1	2	0
Invert El. (ft)	= 561.82	561.82	564.13	0.00
Length (ft)	= 32.00	0.00	0.00	0.00
Slope (%)	= 0.59	0.00	0.00	n/a
N-Value	= .013	.013	.013	n/a
Orifice Coeff.	= 0.60	0.60	0.60	0.60
Multi-Stage	= n/a	No	Yes	No

Weir Structures

	[A]	[B]	[C]	[D]
Crest Len (ft)	= 14.82	0.00	0.00	0.00
Crest El. (ft)	= 566.02	0.00	0.00	0.00
Weir Coeff.	= 3.33	3.33	3.33	3.33
Weir Type	= Recl	---	---	---
Multi-Stage	= Yes	No	No	No
Exfil. (in/hr)	= 0.000 (by Wet area)			
TW Elev. (ft)	= 0.00			

Note: Culvert/Orifice outflows are analyzed under inlet (ic) and outlet (oc) control. Weir risers checked for orifice condition (o) and submergence (s).

Stage / Storage / Discharge Table

Stage ft	Storage cuft	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	PrfRsr cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	User cfs	Total cfs
0.00	0	561.82	0.00	0.00	0.00	---	0.00	---	---	---	---	---	0.000
0.02	0	561.84	0.00	0.00	0.00	---	0.00	---	---	---	---	---	0.000
0.04	1	561.86	0.00	0.00	0.00	---	0.00	---	---	---	---	---	0.000
0.05	1	561.87	0.00	0.00	0.00	---	0.00	---	---	---	---	---	0.000
0.07	1	561.89	0.00	0.00	0.00	---	0.00	---	---	---	---	---	0.000
0.09	1	561.91	0.00	0.00	0.00	---	0.00	---	---	---	---	---	0.000
0.11	2	561.93	0.00	0.00	0.00	---	0.00	---	---	---	---	---	0.000
0.13	2	561.95	0.00	0.00	0.00	---	0.00	---	---	---	---	---	0.000
0.14	2	561.96	0.00	0.00	0.00	---	0.00	---	---	---	---	---	0.000
0.16	2	561.98	0.00	0.00	0.00	---	0.00	---	---	---	---	---	0.000
0.18	3	562.00	0.00	0.00	0.00	---	0.00	---	---	---	---	---	0.000
0.28	300	562.10	0.00	0.00	0.00	---	0.00	---	---	---	---	---	0.000
0.38	598	562.20	0.00	0.00	0.00	---	0.00	---	---	---	---	---	0.000
0.48	895	562.30	0.00	0.00	0.00	---	0.00	---	---	---	---	---	0.000
0.58	1,193	562.40	0.00	0.00	0.00	---	0.00	---	---	---	---	---	0.000
0.68	1,491	562.50	0.00	0.00	0.00	---	0.00	---	---	---	---	---	0.000
0.78	1,788	562.60	0.00	0.00	0.00	---	0.00	---	---	---	---	---	0.000
0.88	2,086	562.70	0.00	0.00	0.00	---	0.00	---	---	---	---	---	0.000
0.98	2,383	562.80	0.00	0.00	0.00	---	0.00	---	---	---	---	---	0.000
1.08	2,681	562.90	0.00	0.00	0.00	---	0.00	---	---	---	---	---	0.000
1.18	2,978	563.00	0.00	0.00	0.00	---	0.00	---	---	---	---	---	0.000
1.28	3,264	563.10	0.00	0.00	0.00	---	0.00	---	---	---	---	---	0.000
1.38	4,750	563.20	0.00	0.00	0.00	---	0.00	---	---	---	---	---	0.000
1.48	5,636	563.30	0.00	0.00	0.00	---	0.00	---	---	---	---	---	0.000
1.58	6,522	563.40	0.00	0.00	0.00	---	0.00	---	---	---	---	---	0.000
1.68	7,408	563.50	0.00	0.00	0.00	---	0.00	---	---	---	---	---	0.000
1.78	8,294	563.60	0.00	0.00	0.00	---	0.00	---	---	---	---	---	0.000
1.88	9,180	563.70	0.00	0.00	0.00	---	0.00	---	---	---	---	---	0.000
1.98	10,066	563.80	0.00	0.00	0.00	---	0.00	---	---	---	---	---	0.000
2.08	10,952	563.90	0.00	0.00	0.00	---	0.00	---	---	---	---	---	0.000
2.18	11,838	564.00	0.00	0.00	0.00	---	0.00	---	---	---	---	---	0.000
2.28	12,848	564.10	0.00	0.00	0.00	---	0.00	---	---	---	---	---	0.000
2.38	13,658	564.20	0.25 ic	0.00	0.24 ic	---	0.00	---	---	---	---	---	0.241
2.48	14,868	564.30	0.96 ic	0.00	0.91 ic	---	0.00	---	---	---	---	---	0.914
2.58	15,878	564.40	1.85 oc	0.00	1.83 ic	---	0.00	---	---	---	---	---	1.830

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Stage / Storage / Discharge Table

Stage ft	Storage cuft	Elevation ft	Civ A cfs	Civ B cfs	Civ C cfs	PriRsr cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	User cfs	Total cfs
2.68	16,888	564.50	3.06 oc	0.00	2.94 ic	---	0.00	---	---	---	---	---	2.936
2.78	17,897	564.60	4.24 oc	0.00	4.20 ic	---	0.00	---	---	---	---	---	4.203
2.88	18,907	564.70	5.76 oc	0.00	5.61 ic	---	0.00	---	---	---	---	---	5.614
2.98	19,917	564.80	7.24 oc	0.00	7.15 ic	---	0.00	---	---	---	---	---	7.154
3.08	20,927	564.90	8.96 oc	0.00	8.81 ic	---	0.00	---	---	---	---	---	8.815
3.18	21,937	565.00	10.73 oc	0.00	10.59 ic	---	0.00	---	---	---	---	---	10.59
3.28	23,077	565.10	12.61 oc	0.00	12.47 ic	---	0.00	---	---	---	---	---	12.47
3.38	24,218	565.20	14.49 oc	0.00	14.44 ic	---	0.00	---	---	---	---	---	14.44
3.48	25,358	565.30	16.56 oc	0.00	16.52 ic	---	0.00	---	---	---	---	---	16.52
3.58	26,499	565.40	18.55 oc	0.00	18.53 ic	---	0.00	---	---	---	---	---	18.53
3.68	27,639	565.50	18.96 oc	0.00	18.96 ic	---	0.00	---	---	---	---	---	18.96
3.78	28,780	565.60	20.02 oc	0.00	20.02 ic	---	0.00	---	---	---	---	---	20.02
3.88	29,920	565.70	21.03 oc	0.00	21.03 ic	---	0.00	---	---	---	---	---	21.03
3.98	31,061	565.80	21.99 oc	0.00	21.99 ic	---	0.00	---	---	---	---	---	21.99
4.08	32,201	565.90	22.91 oc	0.00	22.91 ic	---	0.00	---	---	---	---	---	22.91
4.18	33,342	566.00	23.80 oc	0.00	23.80 ic	---	0.00	---	---	---	---	---	23.80
4.28	34,619	566.10	25.62 oc	0.00	24.40 ic	---	1.12	---	---	---	---	---	25.52
4.38	35,897	566.20	28.36 oc	0.00	24.59 ic	---	3.77	---	---	---	---	---	28.36
4.48	37,178	566.30	31.79 oc	0.00	24.48 ic	---	7.31	---	---	---	---	---	31.76
4.58	38,453	566.40	35.61 oc	0.00	24.06 ic	---	11.55	---	---	---	---	---	35.61
4.68	39,730	566.50	39.71 oc	0.00	23.31 ic	---	16.40	---	---	---	---	---	39.71
4.78	41,008	566.60	44.01 oc	0.00	22.22 ic	---	21.78	---	---	---	---	---	44.01
4.88	42,286	566.70	48.41 oc	0.00	20.76 ic	---	27.66	---	---	---	---	---	48.41
4.98	43,564	566.80	52.52 oc	0.00	19.10 ic	---	33.42 s	---	---	---	---	---	52.52
5.08	44,841	566.90	55.67 oc	0.00	17.90 ic	---	37.77 g	---	---	---	---	---	55.67
5.18	46,119	567.00	58.42 oc	0.00	16.85 ic	---	41.56 g	---	---	---	---	---	58.41

End