



TOWNSHIP of HOPEWELL
MERCER COUNTY

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

PROJECT / APPLICATION

BLOCK: 93

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

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

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

SWM Revised 3.31.25
Pages 1-1000

responsibility or liability for problems that arise because the geotechnical engineer was not informed about developments the engineer otherwise would have considered.

Most of the “Findings” Related in This Report Are Professional Opinions

Before construction begins, geotechnical engineers explore a site’s subsurface using various sampling and testing procedures. *Geotechnical engineers can observe actual subsurface conditions only at those specific locations where sampling and testing is performed.* The data derived from that sampling and testing were reviewed by your geotechnical engineer, who then applied professional judgement to form opinions about subsurface conditions throughout the site. Actual site-wide subsurface conditions may differ – maybe significantly – from those indicated in this report. Confront that risk by retaining your geotechnical engineer to serve on the design team through project completion to obtain informed guidance quickly, whenever needed.

This Report’s Recommendations Are Confirmation-Dependent

The recommendations included in this report – including any options or alternatives – are confirmation-dependent. In other words, they are not final, because the geotechnical engineer who developed them relied heavily on judgement and opinion to do so. Your geotechnical engineer can finalize the recommendations *only after observing actual subsurface conditions* exposed during construction. If through observation your geotechnical engineer confirms that the conditions assumed to exist actually do exist, the recommendations can be relied upon, assuming no other changes have occurred. *The geotechnical engineer who prepared this report cannot assume responsibility or liability for confirmation-dependent recommendations if you fail to retain that engineer to perform construction observation.*

This Report Could Be Misinterpreted

Other design professionals’ misinterpretation of geotechnical-engineering reports has resulted in costly problems. Confront that risk by having your geotechnical engineer serve as a continuing member of the design team, to:

- confer with other design-team members;
- help develop specifications;
- review pertinent elements of other design professionals’ plans and specifications; and
- be available whenever geotechnical-engineering guidance is needed.

You should also confront the risk of constructors misinterpreting this report. Do so by retaining your geotechnical engineer to participate in prebid and preconstruction conferences and to perform construction-phase observations.

Give Constructors a Complete Report and Guidance

Some owners and design professionals mistakenly believe they can shift unanticipated-subsurface-conditions liability to constructors by limiting the information they provide for bid preparation. To help prevent the costly, contentious problems this practice has caused, include the complete geotechnical-engineering report, along with any attachments or appendices, with your contract documents, *but be certain to note*

conspicuously that you’ve included the material for information purposes only. To avoid misunderstanding, you may also want to note that “informational purposes” means constructors have no right to rely on the interpretations, opinions, conclusions, or recommendations in the report. Be certain that constructors know they may learn about specific project requirements, including options selected from the report, *only* from the design drawings and specifications. Remind constructors that they may perform their own studies if they want to, and *be sure to allow enough time* to permit them to do so. Only then might you be in a position to give constructors the information available to you, while requiring them to at least share some of the financial responsibilities stemming from unanticipated conditions. Conducting prebid and preconstruction conferences can also be valuable in this respect.

Read Responsibility Provisions Closely

Some client representatives, design professionals, and constructors do not realize that geotechnical engineering is far less exact than other engineering disciplines. This happens in part because soil and rock on project sites are typically heterogeneous and not manufactured materials with well-defined engineering properties like steel and concrete. That lack of understanding has nurtured unrealistic expectations that have resulted in disappointments, delays, cost overruns, claims, and disputes. To confront that risk, geotechnical engineers commonly include explanatory provisions in their reports. Sometimes labeled “limitations,” many of these provisions indicate where geotechnical engineers’ responsibilities begin and end, to help others recognize their own responsibilities and risks. *Read these provisions closely.* Ask questions. Your geotechnical engineer should respond fully and frankly.

Geoenvironmental Concerns Are Not Covered

The personnel, equipment, and techniques used to perform an environmental study – e.g., a “phase-one” or “phase-two” environmental site assessment – differ significantly from those used to perform a geotechnical-engineering study. For that reason, a geotechnical-engineering report does not usually provide environmental findings, conclusions, or recommendations; e.g., about the likelihood of encountering underground storage tanks or regulated contaminants. *Unanticipated subsurface environmental problems have led to project failures.* If you have not obtained your own environmental information about the project site, ask your geotechnical consultant for a recommendation on how to find environmental risk-management guidance.

Obtain Professional Assistance to Deal with Moisture Infiltration and Mold

While your geotechnical engineer may have addressed groundwater, water infiltration, or similar issues in this report, the engineer’s services were not designed, conducted, or intended to prevent migration of moisture – including water vapor – from the soil through building slabs and walls and into the building interior, where it can cause mold growth and material-performance deficiencies. Accordingly, *proper implementation of the geotechnical engineer’s recommendations will not of itself be sufficient to prevent moisture infiltration.* Confront the risk of moisture infiltration by including building-envelope or mold specialists on the design team. *Geotechnical engineers are not building-envelope or mold specialists.*



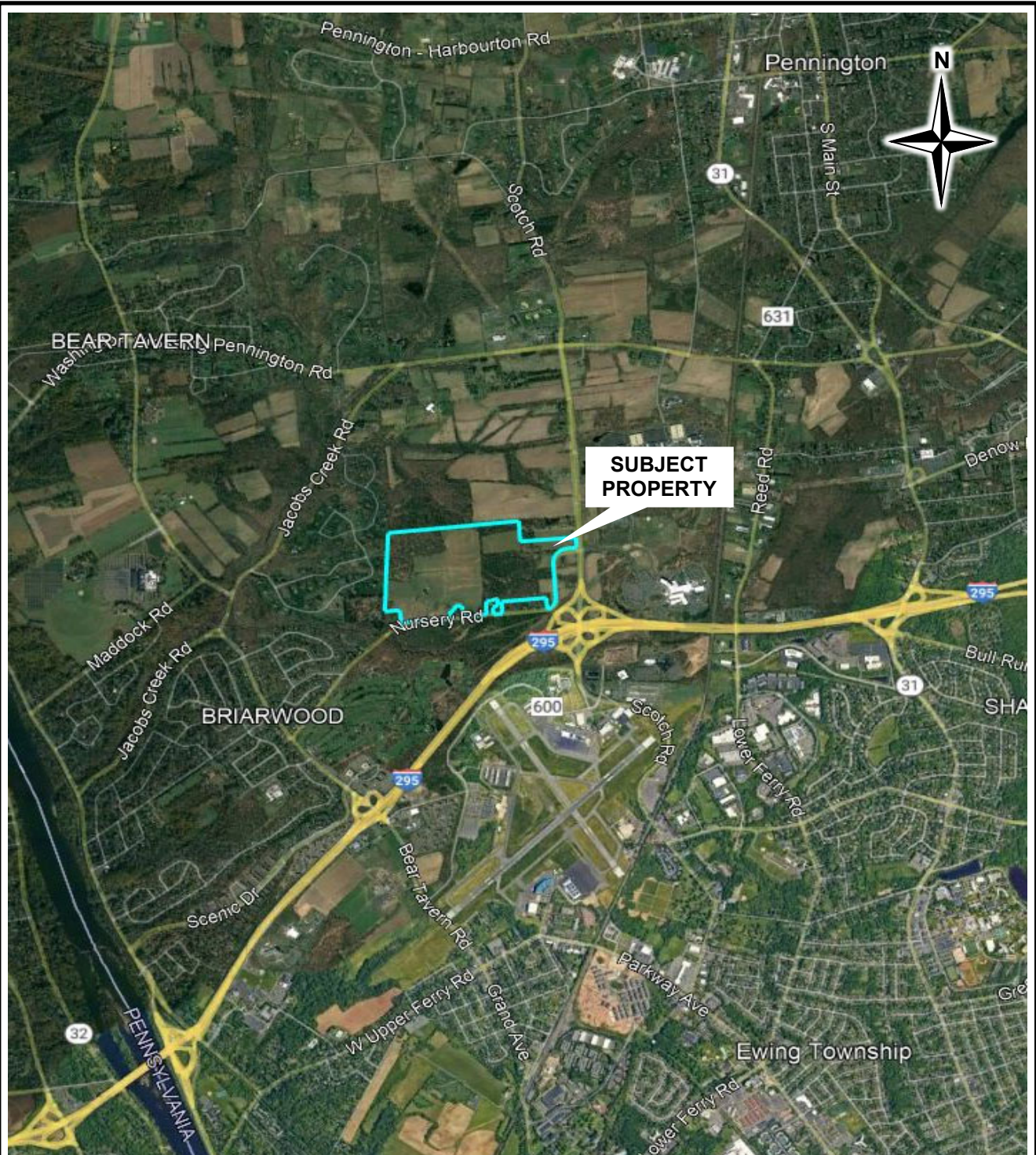
**GEOPROFESSIONAL
BUSINESS
ASSOCIATION**

Telephone: 301/565-2733

e-mail: info@geoprofessional.org www.geoprofessional.org

APPENDIX A

Figures



Note: Site boundary is approximate.

SITE LOCATION MAP



14 Worlds Fair Drive, Suite A
Somerset, New Jersey 08873
(732) 271-9301
fax (732) 271-9306

GEO-TECHNOLOGY ASSOCIATES, INC.

VENUE AT HOPEWELL

Hopewell Township,
Mercer County, New Jersey

Prepared For: Lennar

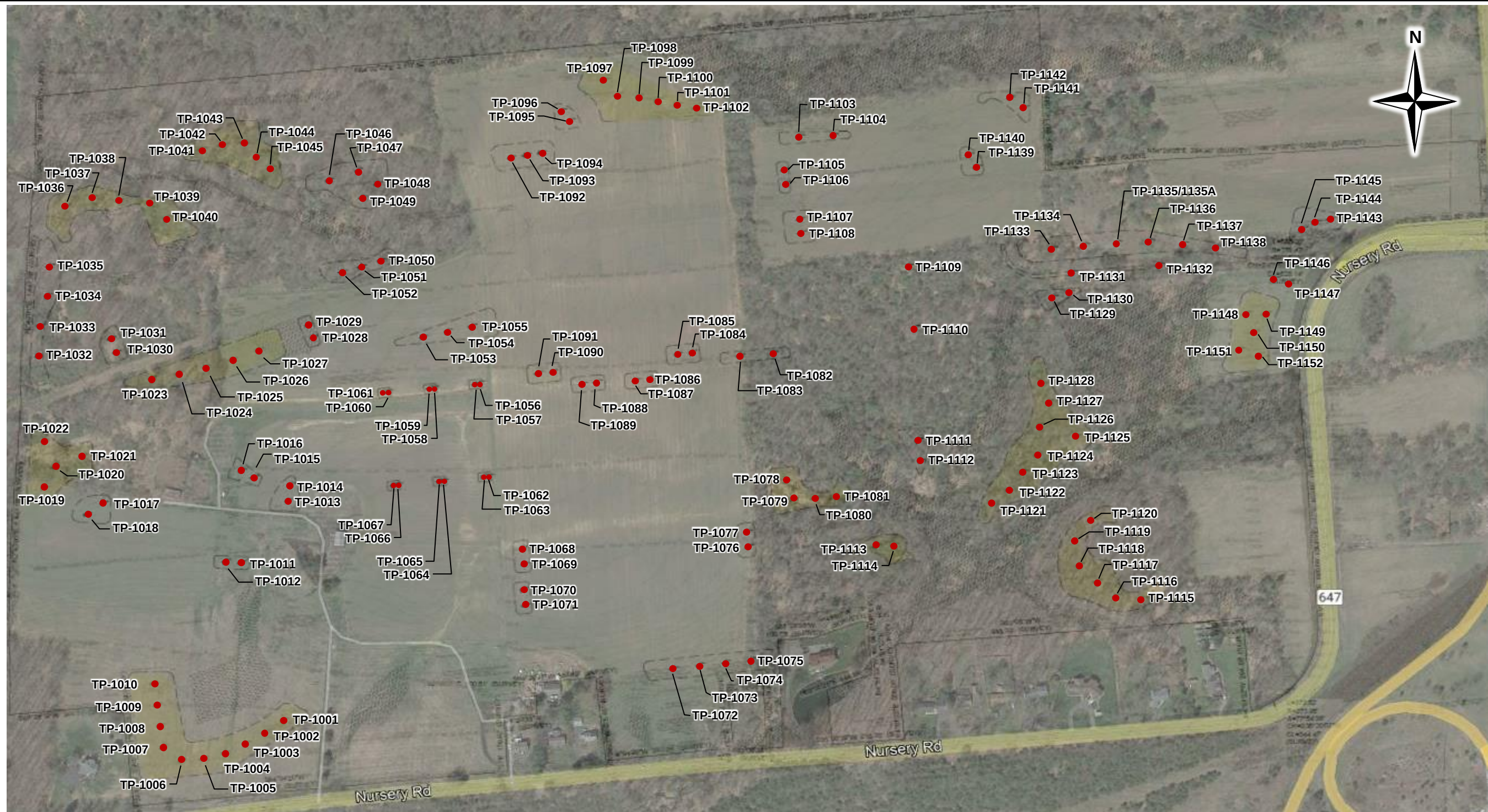
SOURCE: Google Maps

SCALE: NTS

DATE: DEC. 2023

PROJECT #: 31191132x1

Figure 1



* Base plan prepared by Bowman Consulting titled "Test Pit Locations Map" dated September 19, 2023 overlaid on Google Earth aerial image.

LEGEND:

TP-100X ● Indicates the numbers and approximate locations of test pits performed by GTA for this study.

TEST PIT LOCATION PLAN



14 Worlds Fair Drive, Suite A
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fax (732) 271-9306

GEO-TECHNOLOGY ASSOCIATES, INC.

VENUE AT HOPEWELL

Hopewell Township,
Mercer County, New Jersey

Prepared For: Lennar

DESIGN BY: *	DRAWN BY: AMT	REVIEWED BY: KTP
SCALE: NTS	DATE: DEC. 2023	PROJECT #: 31191132x1

Figure 2

APPENDIX B

Subsurface Summary Table

Lennar - Venue at Hopewell
Subsurface Summary Table

Date: 12/1/2023
GTA Project No.: 31191132x1

Test Pit Number	Stake Number	GROUND SURFACE		DEPTH		BEDROCK				INFILTRATION TEST RESULTS					
		Ground Surface EL (Ft.)	Topsoil (In.)	Total Depth (Ft.)	Bottom of Excavation EL (Ft.)	Top of HW Rock (Ft.)	Top of HW Rock EL (Ft.)	Refusal Depth (Ft.)	Refusal EL (Ft.)	In-situ Infiltration Test Depth (Ft.)	In-situ Infiltration Test EL (Ft.)	Measured Infiltration Rate (in/hr)	Basin Flood Test Depth (Ft.)	Basin Flood Test EL (Ft.)	Basin Flood Test Results (PASS/FAIL)
TP-1001	5000	155.7	10	9	146.7	6	149.7	9	146.7	3.5	152.2	0	8	147.7	FAIL
TP-1002	5001	153.8	10	8	145.8	6	147.8	8	145.8	4	149.8	0	8	145.8	FAIL
TP-1003	5002	151.8	8	11	140.8	5.5	146.3	11	140.8	3	148.8	0	8	143.8	PASS
TP-1004	5003	150.6	10	12	138.6	6.5	144.1	12	138.6	5	145.6	1/2	9.5	141.1	PASS
TP-1005	5004	149.2	10	10	139.2	8	141.2	10	139.2	3.5	145.7	0	9	140.2	FAIL
TP-1006	5005	147.1	10	10	137.1	7.5	139.6	10	137.1	4	143.1	0	9	138.1	FAIL
TP-1007	5006	149.1	6	11	138.1	7.5	141.6	11	138.1	5	144.1	1/2	8	141.1	FAIL
TP-1008	5007	151.3	10	9	142.3	6	145.3	9	142.3	4	147.3	0	8	143.3	PASS
TP-1009	5008	154.2	10	8	146.2	6	148.2	8	146.2	3	151.2	0	8	146.2	PASS
TP-1010	5009	158.5	10	10	148.5	6	152.5	10	148.5	4	154.5	3	8	150.5	PASS
TP-1011	5061	187.2	10	6	181.2	3	184.2	6	181.2	1	186.2	4-1/2			
TP-1012	5062	189.1	10	7	182.1	4	185.1	7	182.1	2	187.1	0			
TP-1013	5060	198.8	10	5	193.8	2.5	196.3	5	193.8	1	197.8	0			
TP-1014	5059	198.5	10	6	192.5	3	195.5	6	192.5	1	197.5	0			
TP-1015	5058	195.9	10	5	190.9	3	192.9	5	190.9	1	194.9	0			
TP-1016	5057	194.5	10	5	189.5	3	191.5	5	189.5	1	193.5	1/2			
TP-1017	5056	192.7	6	6	186.7	1.5	191.2	6	186.7	0.5	192.2	24			
TP-1018	5055	192.3	6	6	186.3	2.5	189.8	6	186.3	1	191.3	3			
TP-1019	5012	187.7	8	6	182.2	1.5	186.2	5.5	182.2	0.5	187.2	12	5	182.7	FAIL
TP-1020	5011	182.4	10	6	176.4	1.5	180.9	6	176.4	1	181.4	0	5	177.4	FAIL
TP-1021	5010	181.7	10	6	175.7	3	178.7	6	175.7	1	180.7	1/2	5	176.7	FAIL
TP-1022	5013	182.8	10	5	177.8	2	180.8	5	177.8	1	181.8	1/2	4	178.8	FAIL
TP-1023	5014	189.3	10	6	183.3	4	185.3	6	183.3	2	187.3	0	6	183.3	FAIL
TP-1024	5015	190.3	10	8	182.3	4	186.3	8	182.3	2.5	187.8	0	7	183.3	PASS
TP-1025	5016	191.2	10	7	184.2	4	187.2	7	184.2	2	189.2	0	6	185.2	FAIL
TP-1026	5017	192.7	6	8	184.7	5	187.7	8	184.7	3	189.7	1/2	7	185.7	PASS
TP-1027	5019	193.6	6	4	189.6	2	191.6	4	189.6	1	192.6	1/2	4	189.6	FAIL
TP-1028	5145	194.1	12	6	188.1	4	190.1	6	188.1	2	192.1	0			
TP-1029	5146	193.4	10	5.5	187.9	4	189.4	5.5	187.9	2	191.4	1/2			
TP-1030	5147	187.0	10	5	182.0	3	184.0	5	182.0	1	186.0	0			
TP-1031	5148	186.3	10	5.5	180.8	4	182.3	5.5	180.8	2	184.3	0			
TP-1032	5149	182.9	8	5	177.9	3	179.9	5	177.9	1	181.9	0			
TP-1033	5150	183.6	10	5.5	178.1	3	180.6	5.5	178.1	1	182.6	0			
TP-1034	5151	194.3	12	6	188.3	3.5	190.8	6	188.3	1.5	192.8	1/2			
TP-1035	5152	181.2	10	5.5	175.7	2.5	178.7	5.5	175.7	1	180.2	1			
TP-1036	5020	168.9	10	7	161.9	4.5	164.4	7	161.9	3	165.9	1/8	7	161.9	FAIL
TP-1037	5021	169.4	10	7.5	161.9	5	164.4	7.5	161.9	3	166.4	1/8	7	162.4	FAIL
TP-1038	5022	172.9	10	8	164.9	5.5	167.4	8	164.9	3.5	169.4	3	7	165.9	FAIL
TP-1039	5023	174.8	12	8	166.8	4	170.8	8	166.8	2	172.8	1-1/2	7	167.8	FAIL
TP-1040	5024	179.8	6	7	172.8	3.5	176.3	7	172.8	1.5	178.3	0	6	173.8	FAIL
TP-1041	5025	177.5	6	6.5	171.0	2.5	175.0	6.5	171.0	0.5	177.0	1/2	5	172.5	PASS
TP-1042	5026	179.3	6	6	173.3	2	177.3	6	173.3	1	178.3	0	5	174.3	FAIL
TP-1043	5027	183.8	6	6	177.8	3	180.8	6	177.8	1	182.8	0	5	178.8	FAIL

Test Pit Number	Stake Number	GROUND SURFACE		DEPTH		BEDROCK				INFILTRATION TEST RESULTS					
		Ground Surface EL (Ft.)	Topsoil (In.)	Total Depth (Ft.)	Bottom of Excavation EL (Ft.)	Top of HW Rock (Ft.)	Top of HW Rock EL (Ft.)	Refusal Depth (Ft.)	Refusal EL (Ft.)	In-situ Infiltration Test Depth (Ft.)	In-situ Infiltration Test EL (Ft.)	Measured Infiltration Rate (in/hr)	Basin Flood Test Depth (Ft.)	Basin Flood Test EL (Ft.)	Basin Flood Test Results (PASS/FAIL)
TP-1044	5028	182.7	8	6	176.7	3	179.7	6	176.7	1	181.7	0	4.5	178.2	PASS
TP-1045	5029	183.4	8	7	176.4	5	178.4	7	176.4	3	180.4	1/2	7	176.4	FAIL
TP-1046	5085	188.5	12	6	182.5	4	184.5	6	182.5	2	186.5	1/4			
TP-1047	5086	191.9	6	6	185.9	1.5	190.4	6	185.9	0.5	191.4	0			
TP-1048	5087	193.4	8	7	186.4	4	189.4	7	186.4	2	191.4	0			
TP-1049	5088	189.9	10	8	181.9	3	186.9	8	181.9	1	188.9	0			
TP-1050	5082	190.4	10	6	184.4	4	186.4	6	184.4	2	188.4	0			
TP-1051	5083	190.3	8	6.5	183.8	4.5	185.8	6.5	183.8	2.5	187.8	0			
TP-1052	5084	189.6	10	6	183.6	4	185.6	6	183.6	2	187.6	0			
TP-1053	5079	199.4	12	4.5	194.9	3.5	195.9	4.5	194.9	1.5	197.9	1/2			
TP-1054	5080	200.3	12	5	195.3	4	196.3	5	195.3	2	198.3	0			
TP-1055	5081	200.9	12	6	194.9	4	196.9	6	194.9	2	198.9	0			
TP-1056	5073	200.9	8	10	190.9	6.5	194.4	10	190.9	4	196.9	0			
TP-1057	5074	201.0	8	12	189.0	6.5	194.5	12	189.0	4	197.0	0			
TP-1058	5075	200.1	8	5	195.1	2	198.1	5	195.1	1	199.1	0			
TP-1059	5076	200.0	8	5	195.0	2.5	197.5	5	195.0	1	199.0	0			
TP-1060	5077	197.6	8	7	190.6	1.5	196.1	7	190.6	1	196.6	1-1/2			
TP-1061	5078	197.3	8	7	190.3	3	194.3	7	190.3	1	196.3	0			
TP-1062	5072	203.7	10	8	195.7	5	198.7	8	195.7	3	200.7	0			
TP-1063	5071	203.5	10	8	195.5	4.5	199.0	8	195.5	2.5	201.0	0			
TP-1064	5070	203.8	10	5	198.8	2	201.8	5	198.8	1.5	202.3	0			
TP-1065	5069	204.1	10	5.5	198.6	2	202.1	5.5	198.6	1	203.1	0			
TP-1066	5068	204.1	10	5.5	198.6	1.5	202.6	5.5	198.6	1	203.1	0			
TP-1067	5067	204.1	10	6	198.1	1.5	202.6	6	198.1	1	203.1	0			
TP-1068	5066	206.6	10	5	201.6	3	203.6	5	201.6	1	205.6	0			
TP-1069	5065	206.9	8	5.5	201.4	1.5	205.4	5.5	201.4	1	205.9	* N/A			
TP-1070	5064	205.7	8	7	198.7	1.5	204.2	7	198.7	1	204.7	* N/A			
TP-1071	5063	204.2	12	5	199.2	2.5	201.7	5	199.2	1	203.2	* N/A			
TP-1072	5121	186.1	10	7	179.1	3	183.1	7	179.1	1	185.1	2			
TP-1073	5120	183.8	10	7.5	176.3	3	180.8	7.5	176.3	1	182.8	2			
TP-1074	5119	181.4	10	7	174.4	3	178.4	7	174.4	1	180.4	2			
TP-1075	5118	179.8	10	6	173.8	3	176.8	6	173.8	1	178.8	2			
TP-1076	5117	200.3	10	6.5	193.8	3	197.3	6.5	193.8	1	199.3	0			
TP-1077	5116	201.2	10	6	195.2	3	198.2	6	195.2	1	200.2	0			
TP-1078	5030	197.6	10	8	189.6	5	192.6	8	189.6	3	194.6	0	8	189.6	PASS
TP-1079	5031	196.9	8	5	191.9	3	193.9	5	191.9	1	195.9	0	5	191.9	FAIL
TP-1080	5032	194.9	8	7	187.9	3	191.9	7	187.9	1	193.9	0	5	189.9	FAIL
TP-1081	5033	192.8	8	7	185.8	2	190.8	7	185.8	1	191.8	0	5	187.8	FAIL
TP-1082	5106	208.4	10	8	200.4	4	204.4	8	200.4	2	206.4	0			
TP-1083	5107	208.7	10	6	202.7	3	205.7	6	202.7	1	207.7	0			
TP-1084	5108	208.9	10	6	202.9	3	205.9	6	202.9	1	207.9	0			
TP-1085	5109	208.7	10	6.5	202.2	4	204.7	6.5	202.2	2	206.7	0			
TP-1086	5110	207.7	10	6	201.7	4.5	203.2	6	201.7	2.5	205.2	0			
TP-1087	5111	207.3	10	6	201.3	4.5	202.8	6	201.3	2.5	204.8	0			
TP-1088	5112	206.4	10	7.5	198.9	5.5	200.9	7.5	198.9	3.5	202.9	0			
TP-1089	5113	205.5	10	8	197.5	6.5	199.0	8	197.5	4.5	201.0	0			
TP-1090	5114	205.0	10	6.5	198.5	4.5	200.5	6.5	198.5	2.5	202.5	0			

Test Pit Number	Stake Number	GROUND SURFACE		DEPTH		BEDROCK				INFILTRATION TEST RESULTS					
		Ground Surface EL (Ft.)	Topsoil (In.)	Total Depth (Ft.)	Bottom of Excavation EL (Ft.)	Top of HW Rock (Ft.)	Top of HW Rock EL (Ft.)	Refusal Depth (Ft.)	Refusal EL (Ft.)	In-situ Infiltration Test Depth (Ft.)	In-situ Infiltration Test EL (Ft.)	Measured Infiltration Rate (in/hr)	Basin Flood Test Depth (Ft.)	Basin Flood Test EL (Ft.)	Basin Flood Test Results (PASS/FAIL)
TP-1091	5115	204.4	10	7	197.4	5	199.4	7	197.4	3	201.4	1/2			
TP-1092	5089	196.5	12	9.5	187.0	5	191.5	9.5	187.0	1	195.5	1			
TP-1093	5090	196.9	12	7.5	189.4	5	191.9	7.5	189.4	3	193.9	0			
TP-1094	5091	196.9	10	6	190.9	3	193.9	6	190.9	1	195.9	0			
TP-1095	5092	194.6	12	5	189.6	3	191.6	5	189.6	1	193.6	0			
TP-1096	5093	195.2	12	5.5	189.7	3	192.2	5.5	189.7	1	194.2	0			
TP-1097	5094	190.1	10	6	184.1	3	187.1	6	184.1	1	189.1	0	5	185.1	PASS
TP-1098	5095	189.9	10	7	182.9	3.5	186.4	7	182.9	1.5	188.4	1/4	6	183.9	FAIL
TP-1099	5096	189.5	6	5	184.5	2	187.5	5	184.5	0.5	189.0	0	4.5	185.0	PASS
TP-1100	5097	189.5	6	4	185.5	1	188.5	4	185.5	0.5	189.0	1/4	4	185.5	FAIL
TP-1101	5098	191.6	6	5.5	186.1	2.5	189.1	5.5	186.1	0.5	191.1	0	4.5	187.1	PASS
TP-1102	5099	192.3	12	8.5	183.8	5	187.3	8.5	183.8	3	189.3	0	6	186.3	FAIL
TP-1103	5100	195.2	12	6	189.2	3.5	191.7	6	189.2	1	194.2	0			
TP-1104	5101	196.2	12	8	188.2	4	192.2	8	188.2	2	194.2	0			
TP-1105	5102	198.3	12	7	191.3	4	194.3	7	191.3	2	196.3	1			
TP-1106	5103	199.1	12	7	192.1	4	195.1	7	192.1	2	197.1	0			
TP-1107	5104	200.6	12	5	195.6	3	197.6	5	195.6	1	199.6	1-1/2			
TP-1108	5105	201.7	12	7	194.7	4	197.7	7	194.7	2	199.7	1			
TP-1109	5125	211.5	12	6	205.5	4	207.5	6	205.5	2	209.5	1/2			
TP-1110	5124	207.1	12	6	201.1	4	203.1	6	201.1	2	205.1	0			
TP-1111	5123	187.6	6	6	181.6	1	186.6	6	181.6	0.75	186.9	* N/A			
TP-1112	5122	185.2	12	6	179.2	6	179.2	6	179.2	1	184.2	0			
TP-1113	5035	182.4	10	6.5	175.9	3	179.4	6.5	175.9	1	181.4	0	5	177.4	FAIL
TP-1114	5034	187.2	12	6	181.2	3	184.2	6	181.2	1	186.2	0	5	182.2	FAIL
TP-1115	5049	200.4	8	7	193.4	3	197.4	7	193.4	1	199.4	0	7	193.4	PASS
TP-1116	5048	195.7	10	7	188.7	3.5	192.2	7	188.7	1.5	194.2	0	7	188.7	PASS
TP-1117	5047	192.3	10	8	184.3	2.5	189.8	8	184.3	1	191.3	1/2	5	187.3	PASS
TP-1118	5046	187.0	8	8	179.0	4	183.0	8	179.0	2	185.0	1/2	6	181.0	PASS
TP-1119	5045	182.3	8	8	174.3	3	179.3	8	174.3	1	181.3	6	5	177.3	FAIL
TP-1120	5044	195.6	10	7	188.6	2.5	193.1	7	188.6	1	194.6	6	5	190.6	FAIL
TP-1121	5036	180.7	10	7	173.7	4.5	176.2	7	173.7	2.5	178.2	0	6.5	174.2	FAIL
TP-1122	5037	182.6	10	5.5	177.1	2.5	180.1	5.5	177.1	1	181.6	0	4.5	178.1	FAIL
TP-1123	5038	184.4	10	5.5	178.9	2.5	181.9	5.5	178.9	1	183.4	1/4	4.5	179.9	FAIL
TP-1124	5039	187.8	10	5.5	182.3	3	184.8	5.5	182.3	1	186.8	0	5	182.8	PASS
TP-1125	5040	189.0	10	7	182.0	3	186.0	7	182.0	1	188.0	* N/A	5	184.0	** FAIL
TP-1126	5041	190.7	10	7	183.7	5	185.7	7	183.7	3	187.7	1/4	7	183.7	FAIL
TP-1127	5042	199.2	8	6	193.2	4	195.2	6	193.2	2	197.2	0	6	193.2	PASS
TP-1128	5043	193.5	10	6	187.5	4	189.5	6	187.5	2	191.5	0	6	187.5	FAIL
TP-1129	5139	209.0	8	8	201.0	3	206.0	8	201.0	1	208.0	1/4			
TP-1130	5138	207.4	8	10	197.4	4	203.4	10	197.4	2	205.4	1/4			
TP-1131	***N/A	212	10	6	206.0	3	209.0	6	206.0	1	211.0	12			
TP-1132	***N/A	210	10	6	204.0	4	206.0	6	204.0	2	208.0	1/2			
TP-1133	5130	212.5	10	6	206.5	4	208.5	6	206.5	2	210.5	1/2			
TP-1134	5131	213.9	8	6.5	207.4	4.5	209.4	6.5	207.4	2.5	211.4	0			
TP-1135	5132	214.4	8	3	211.4										
TP-1135A	5132	214.4	8	6	208.4	4	210.4	6	208.4	2	212.4	1/2			
TP-1136	5133	214.6	6	6	208.6	4	210.6	6	208.6	2	212.6	1/2			

Test Pit Number	Stake Number	GROUND SURFACE		DEPTH		BEDROCK				INFILTRATION TEST RESULTS					
		Ground Surface EL (Ft.)	Topsoil (In.)	Total Depth (Ft.)	Bottom of Excavation EL (Ft.)	Top of HW Rock (Ft.)	Top of HW Rock EL (Ft.)	Refusal Depth (Ft.)	Refusal EL (Ft.)	In-situ Infiltration Test Depth (Ft.)	In-situ Infiltration Test EL (Ft.)	Measured Infiltration Rate (in/hr)	Basin Flood Test Depth (Ft.)	Basin Flood Test EL (Ft.)	Basin Flood Test Results (PASS/FAIL)
TP-1137	5134	213.7	8	6.5	207.2	4	209.7	6.5	207.2	2	211.7	1/4			
TP-1138	5135	211.9	8	7	204.9	3.5	208.4	7	204.9	1.5	210.4	9			
TP-1139	5126	206.8	12	5	201.8	3	203.8	5	201.8	1	205.8	0			
TP-1140	5127	205.1	8	4	201.1	2	203.1	4	201.1	1	204.1	1/2			
TP-1141	5129	201.6	8	5	196.6	3	198.6	5	196.6	1	200.6	0			
TP-1142	5128	200.0	8	5	195.0	4	196.0	5	195.0	2	198.0	1/2			
TP-1143	5142	213.3	10	8	205.3	4	209.3	8	205.3	2	211.3	0			
TP-1144	5141	213.4	10	7	206.4	3.5	209.9	7	206.4	1.5	211.9	0			
TP-1145	5140	213.2	10	6.5	206.7	4	209.2	6.5	206.7	2	211.2	0			
TP-1146	5144	207.1	10	7	200.1	4	203.1	7	200.1	1.5	205.6	0			
TP-1147	5143	207.1	10	8	199.1	4	203.1	8	199.1	2	205.1	1/2			
TP-1148	5054	202.3	12	4	198.3	2	200.3	4	198.3	1	201.3	1/2	4	198.3	FAIL
TP-1149	5053	202.8	12	7	195.8	3.5	199.3	7	195.8	1.5	201.3	1/2	5	197.8	PASS
TP-1150	5052	200.2	12	7	193.2	3.5	196.7	7	193.2	1.5	198.7	0	5	195.2	PASS
TP-1151	5051	197.6	10	7	190.6	3	194.6	7	190.6	1	196.6	0	5	192.6	FAIL
TP-1152	5050	197.5	12	7	190.5	4	193.5	7	190.5	2	195.5	0	6	191.5	FAIL

NOTES:

* Infiltration test attempted. Double-ring could not be properly seated to prevent leaking due to shallow rock.

** Basin flood test attempted. Terminated due to water seepage.

*** Missing stake number, could not be located in the field.

APPENDIX C

Exploration Logs

NOTES FOR EXPLORATION LOGS

KEY TO USCS TERMINOLOGY AND GRAPHIC SYMBOLS

MAJOR DIVISIONS (BASED UPON ASTM D 2488)			SYMBOLS	
			GRAPHIC	LETTER
COARSE-GRAINED SOILS MORE THAN 50% OF MATERIAL IS LARGER THAN NO. 200 SIEVE SIZE	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	CLEAN GRAVELS (LESS THAN 15% PASSING THE NO. 200 SIEVE)		GW
		GRAVELS WITH FINES (MORE THAN 15% PASSING THE NO. 200 SIEVE)		GP
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	CLEAN SANDS (LESS THAN 15% PASSING THE NO. 200 SIEVE)		SW
				SP
		SANDS WITH FINES (MORE THAN 15% PASSING THE NO. 200 SIEVE)		SM
				SC
FINE-GRAINED SOILS MORE THAN 50% OF MATERIAL IS SMALLER THAN NO. 200 SIEVE SIZE	SILT OR CLAY ($<15\%$ RETAINED ON THE NO. 200 SIEVE) SILT OR CLAY WITH SAND OR GRAVEL (15% TO 30% RETAINED ON THE NO. 200 SIEVE) SANDY OR GRAVELLY SILT OR CLAY ($>30\%$ RETAINED ON THE NO. 200 SIEVE)			ML
				CL
				OL
	ELASTIC SILTS AND FAT CLAYS LIQUID LIMIT LESS THAN 50 ELASTIC SILTS AND FAT CLAYS LIQUID LIMIT GREATER THAN 50			MH
				CH
				OH
HIGHLY ORGANIC SOILS				PT

NOTE: DUAL SYMBOLS ARE USED TO INDICATE COARSE-GRAINED SOILS WHICH CONTAIN AN ESTIMATED 5 TO 15% FINES BASED ON VISUAL CLASSIFICATION OR BETWEEN 5 AND 12% FINES BASED ON LABORATORY TESTING; AND FINE-GRAINED SOILS WHEN THE PLOT OF LIQUID LIMIT & PLASTICITY INDEX VALUES FALLS IN THE PLASTICITY CHART'S CROSS-HATCHED AREA. FINE-GRAINED SOILS ARE CLASSIFIED AS ORGANIC (OL OR OH) WHEN ENOUGH ORGANIC PARTICLES ARE PRESENT TO INFLUENCE ITS PROPERTIES. LABORATORY TEST RESULTS ARE USED TO SUPPLEMENT SOIL CLASSIFICATION BY THE VISUAL-MANUAL PROCEDURES OF ASTM D 2488.

ADDITIONAL TERMINOLOGY AND GRAPHIC SYMBOLS

ADDITIONAL DESIGNATIONS	DESCRIPTION		GRAPHIC SYMBOLS
	TOPSOIL		
	MAN MADE FILL		
	GLACIAL TILL		
	COBBLES AND BOULDERS		
RESIDUAL SOIL DESIGNATIONS	DESCRIPTION	"N" VALUE	
	HIGHLY WEATHERED ROCK	50 TO 50/1"	
	PARTIALLY WEATHERED ROCK	MORE THAN 50 BLOWS FOR 1" OF PENETRATION OR LESS, AUGER PENETRABLE	

COARSE-GRAINED SOILS (GRAVEL AND SAND)

DESIGNATION	BLOWS PER FOOT (BPF) "N"
VERY LOOSE	0 - 4
LOOSE	5 - 10
MEDIUM DENSE	11 - 30
DENSE	31 - 50
VERY DENSE	>50

NOTE: "N" VALUE DETERMINED AS PER ASTM D 1586

FINE-GRAINED SOILS (SILT AND CLAY)

CONSISTENCY	BPF "N"
VERY SOFT	<2
SOFT	2 - 4
MEDIUM STIFF	5 - 8
STIFF	9 - 15
VERY STIFF	16 - 30
HARD	>30

NOTE: ADDITIONAL DESIGNATIONS TO ADVANCE SAMPLER INDICATED IN BLOW COUNT COLUMN:
WOH = WEIGHT OF HAMMER
WOR = WEIGHT OF ROD(S)

SAMPLE TYPE

DESIGNATION	SYMBOL
SOIL SAMPLE	S-
SHELBY TUBE	U-
ROCK CORE	R-

WATER DESIGNATION

DESCRIPTION	SYMBOL
ENCOUNTERED DURING DRILLING	
UPON COMPLETION OF DRILLING	
24 HOURS AFTER COMPLETION	

NOTE: WATER OBSERVATIONS WERE MADE AT THE TIME INDICATED. POROSITY OF SOIL STRATA, WEATHER CONDITIONS, SITE TOPOGRAPHY, ETC. MAY CAUSE WATER LEVEL CHANGES.

LOG OF TEST PIT NO. TP-1001 (Stake #5000)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **10/12/2023**
 DATE COMPLETED: **10/12/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **155.7 Ft.**
 DATUM: **TOPO**
 LOGGED BY: **AFS**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
154.9	0			10 In. of Topsoil	- Infiltration test = 0 in/hr at 3-1/2 Ft. - NMC = 19.7% - Basin Flood Test performed at 8 Ft.
		ML		Brown (7.5YR 4/4), moist, SILT [Silt per USDA]	
	2			- Brown (7.5YR 5/3) at 3 Ft.	
151.7	4	GM		Red-brown (5YR 4/4), moist, Silty GRAVEL with sand [Gravelly Sand per USDA]	
149.7	6	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
	8				- Basin Flood Test performed at 8 Ft.
146.7				Test pit complete at 9 Ft. due to refusal on highly-weathered rock.	
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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LOG OF TEST PIT NO. TP-1001 (Stake #5000)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1002 (Stake #5001)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **10/12/2023**
 DATE COMPLETED: **10/12/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **153.8 Ft.**
 DATUM: **Survey**
 LOGGED BY: **AFS**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
153.0	0			10 In. of Topsoil	
		ML		Brown (7.5YR 4/4), moist, SILT with sand [Silt Loam per USDA]	
	2			- Brown (7.5YR 5/3) at 3 Ft.	
148.8		GM		Red-brown (5YR 4/4), wet, Silty GRAVEL with sand [Gravelly Sand per USDA]	- Infiltration rate = 0 in/hr at 4 Ft.
147.8	6	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	- Slight perched water seepage at 5 Ft.
145.8	8			Test pit complete at 8 Ft. due to refusal on highly-weathered rock.	- Basin Flood Test performed at 8 Ft.
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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LOG OF TEST PIT NO. TP-1002 (Stake #5001)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1003 (Stake #5002)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **10/12/2023**
 DATE COMPLETED: **10/12/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **151.8 Ft.**
 DATUM: **Survey**
 LOGGED BY: **AFS**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL	DESCRIPTION	REMARKS
151.1	0			8 In. of Topsoil	
		ML		Brown (7.5YR 4/4), moist, Sandy SILT [Silt Loam per USDA]	
	2			- Brown (7.5YR 5/3) at 3 Ft.	- Infiltration rate = 0 in/hr at 3 Ft.
147.8	4	GM		Red-brown (5YR 4/4), moist, Silty GRAVEL with sand [Gravelly Sand per USDA]	
146.3	6	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
	8				- Basin Flood Test performed at 8 Ft.
	10				
140.8	12			Test pit complete at 11 Ft. due to refusal on highly-weathered rock.	
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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LOG OF TEST PIT NO. TP-1003 (Stake #5002)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1004 (Stake #5003)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **10/12/2023**
 DATE COMPLETED: **10/12/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **150.6 Ft.**
 DATUM: **Survey**
 LOGGED BY: **AFS**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
149.8	0			10 In. of Topsoil	
		ML		Brown (7.5YR 4/4), moist, Sandy SILT [Silt Loam per USDA]	
	2			- Brown (7.5YR 5/3) at 3 Ft.	
145.6	6	GM		Red-brown (5YR 4/4), moist, Silty GRAVEL with sand [Gravelly Sand per USDA]	- Infiltration rate = 0.5 in/hr at 5 Ft.
144.1	8	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
	10				
138.6	12			Test pit complete at 12 Ft. due to refusal on highly-weathered rock.	- Basin Flood Test performed at 9-1/2 Ft.
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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LOG OF TEST PIT NO. TP-1004 (Stake #5003)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1005 (Stake #5004)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **10/12/2023**
 DATE COMPLETED: **10/12/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **149.2 Ft.**
 DATUM: **Survey**
 LOGGED BY: **AFS**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
148.4	0			10 In. of Topsoil	- Infiltration rate = 0 in/hr at 3-1/2 Ft.
		ML		Brown (7.5YR 4/4), moist, Sandy SILT [Silt Loam per USDA]	
145.2	4	GM		Red-brown (5YR 4/4), moist, Silty GRAVEL with sand [Gravelly Sand per USDA]	
141.2	8	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
139.2	10			Test pit complete at 10 Ft. due to refusal on highly-weathered rock.	- Basin Flood Test performed at 9 Ft.
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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LOG OF TEST PIT NO. TP-1005 (Stake #5004)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1006 (Stake #5005)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **10/12/2023**
 DATE COMPLETED: **10/12/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **147.1 Ft.**
 DATUM: **Survey**
 LOGGED BY: **AFS**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL	DESCRIPTION	REMARKS
146.3	0			10 In. of Topsoil	
	2	ML		Brown (7.5YR 4/4), moist, Sandy SILT [Silt Loam per USDA] - Red-brown (5YR 4/4) at 3 Ft.	
142.1	6	GM		Red-brown (5YR 4/4), moist, Silty GRAVEL with sand [Gravelly Sand per USDA]	- Infiltration rate = 0 in/hr at 4 Ft.
139.6	8	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	- Slight perched water seepage at 7-1/2 Ft.
137.1	10			Test pit complete at 10 Ft. due to refusal on highly-weathered rock.	- Basin Flood Test performed at 9 Ft. - Slight trapped water seepage at 10 Ft.
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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LOG OF TEST PIT NO. TP-1006 (Stake #5005)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1007 (Stake #5006)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **10/13/2023**
 DATE COMPLETED: **10/13/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **149.1 Ft.**
 DATUM: **Survey**
 LOGGED BY: **AFS**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL	DESCRIPTION	REMARKS
148.6	0			6 In. of Topsoil	
	2	ML		Brown (7.5YR 4/4), moist, Sandy SILT [Silt Loam per USDA]	
				- Brown (7.5YR 5/3) at 2 Ft.	
				- Red-brown (5YR 4/4) at 3 Ft.	
143.1	6	GM		Red-brown (5YR 4/4), moist, Silty GRAVEL with sand [Gravelly Sand per USDA]	- Infiltration rate = 0.5 in/hr at 5 Ft.
141.6	8	HW		Red-brown (5YR 5/3), moist, Highly-weathered ROCK (Shale)	- Slight perched water seepage at 7-1/2 Ft.
	10				- Basin Flood Test performed at 8 Ft. after slight seepage ceased.
138.1	11			Test pit complete at 11 Ft. due to refusal on highly-weathered rock.	
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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14 Worlds Fair Drive, Suite A
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LOG OF TEST PIT NO. TP-1007 (Stake #5006)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1008 (Stake #5007)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **10/13/2023**
 DATE COMPLETED: **10/13/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **151.3 Ft.**
 DATUM: **Survey**
 LOGGED BY: **AFS**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
150.5	0			10 In. of Topsoil	- Infiltration rate = 0 in/hr at 4 Ft. - NMC = 22.1%
		ML		Brown (7.5YR 4/4), moist, Sandy SILT [Silt Loam per USDA]	
	2			- Brown (7.5YR 5/3) at 3 Ft.	
	4			- Red-brown (5YR 4/4) at 4 Ft.	
146.3		GM		Red-brown (5YR 4/4), moist, Silty GRAVEL with sand [Gravelly Sand per USDA]	
145.3	6	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	- Basin Flood Test performed at 8 Ft.
	8				
142.3				Test pit complete at 9 Ft. due to refusal on highly-weathered rock.	
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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LOG OF TEST PIT NO. TP-1008 (Stake #5007)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1009 (Stake #5008)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **10/13/2023**
 DATE COMPLETED: **10/13/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **154.2 Ft.**
 DATUM: **Survey**
 LOGGED BY: **AFS**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
153.4	0			10 In. of Topsoil	- Infiltration rate = 0 in/hr at 3 Ft.
		ML		Brown (7.5YR 4/4), moist, Sandy SILT [Silt Loam per USDA]	
151.2	2	GM		Red-brown (5YR 4/4), moist, Silty GRAVEL with sand [Gravelly Sand per USDA]	
	4				
148.2	6	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	- Basin Flood Test performed at 8 Ft.
146.2	8			Test pit complete at 8 Ft. due to refusal on highly-weathered rock.	
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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14 Worlds Fair Drive, Suite A
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LOG OF TEST PIT NO. TP-1009 (Stake #5008)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1010 (Stake #5009)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **10/13/2023**
 DATE COMPLETED: **10/13/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **158.5**
 DATUM: **Survey**
 LOGGED BY: **AFS**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
157.7	0			10 in. of Topsoil	- Infiltration rate = 3 in/hr at 4 Ft.
		ML		Red-brown (5YR 4/4), moist, Sandy SILT [Silt Loam per USDA]	
155.5	2				
		GM		Red-brown (5YR 4/4), moist, Silty GRAVEL with sand [Gravelly Sand per USDA]	
	4				- Basin Flood Test at 8 Ft.
152.5	6				
		HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
	8				
148.5	10			Test pit complete at 10 Ft. due to refusal on highly-weathered rock.	
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



GEO-TECHNOLOGY ASSOCIATES, INC.

14 Worlds Fair Drive, Suite A
 Somerset, NJ 08873

LOG OF TEST PIT NO. TP-1010 (Stake #5009)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1011 (Stake #5061)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **10/18/2023**
 DATE COMPLETED: **10/18/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **187.2 Ft.**
 DATUM: **Survey**
 LOGGED BY: **AFS**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
186.4	0			10 In. of Topsoil	- Infiltration rate = 4.5 in/hr at 1 Ft.
		ML		Red-brown (5YR 4/4), moist, Sandy SILT [Silt Loam per USDA]	
184.2	2	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
181.2	4				
	6			Test pit complete at 6 Ft. due to refusal on highly-weathered rock.	
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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 Somerset, NJ 08873

LOG OF TEST PIT NO. TP-1011 (Stake #5061)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1012 (Stake #5062)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **10/18/2023**
 DATE COMPLETED: **10/18/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **189.1 Ft.**
 DATUM: **Survey**
 LOGGED BY: **AFS**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
188.3	0			10 In. of Topsoil	- Infiltration rate = 0 in/hr at 2 Ft. - NMC = 22.6%
		ML		Red-brown (5YR 4/4), moist, SILT with sand [Silt Loam per USDA]	
185.1	4	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
182.1	7			Test pit complete at 7 Ft. due to refusal on highly-weathered rock.	
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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14 Worlds Fair Drive, Suite A
 Somerset, NJ 08873

LOG OF TEST PIT NO. TP-1012 (Stake #5062)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1013 (Stake #5060)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **10/19/2023**
 DATE COMPLETED: **10/19/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **198.8 Ft.**
 DATUM: **Survey**
 LOGGED BY: **AFS**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
198.0	0			10 In. of Topsoil	- Infiltration rate = 0 in/hr at 1 Ft.
		ML		Red-brown (5YR 4/4), moist, Sandy SILT [Silt Loam per USDA]	
196.3	2	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
193.8	4			Test pit complete at 5 Ft. due to refusal on highly-weathered rock.	
	6				
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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14 Worlds Fair Drive, Suite A
 Somerset, NJ 08873

LOG OF TEST PIT NO. TP-1013 (Stake #5060)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1014 (Stake #5059)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
PROJECT LOCATION: **Hopewell Township, New Jersey**
CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **10/19/2023**
DATE COMPLETED: **10/19/2023**
CONTRACTOR: **J.A. Neary Excavating**
EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
GROUND SURFACE ELEVATION: **198.5 Ft.**
DATUM: **Survey**
LOGGED BY: **AFS**
CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
197.7	0			10 In. of Topsoil	
		ML		Red-brown (5YR 4/4), moist, Sandy SILT [Silt Loam per USDA]	
195.5	2				- Infiltration rate = 0 in/hr at 1 Ft.
	4	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
192.5	6			Test pit complete at 6 Ft. due to refusal on highly-weathered rock.	- Slight trapped water seepage at 6 Ft.
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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Somerset, NJ 08873

LOG OF TEST PIT NO. TP-1014 (Stake #5059)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1015 (Stake #5058)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **10/18/2023**
 DATE COMPLETED: **10/18/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **195.9 Ft.**
 DATUM: **Survey**
 LOGGED BY: **AFS**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
195.1	0			10 In. of Topsoil	- Infiltration rate = 0 in/hr at 1 Ft.
		ML		Red-brown (5YR 4/4), moist, Sandy SILT [Silt Loam per USDA]	
	2				
	192.9	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
190.9	4				
	6			Test pit complete at 5 Ft. due to refusal on highly-weathered rock.	
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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14 Worlds Fair Drive, Suite A
 Somerset, NJ 08873

LOG OF TEST PIT NO. TP-1015 (Stake #5058)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1016 (Stake #5057)

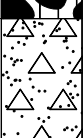
Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **10/18/2023**
 DATE COMPLETED: **10/18/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **194.5 Ft.**
 DATUM: **Survey**
 LOGGED BY: **AFS**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
193.7	0			10 In. of Topsoil	- Infiltration rate = 0.5 in/hr at 1 Ft. - NMC = 19.7%
		GM		Red-brown (5YR 4/4), moist, Silty GRAVEL with sand [Gravelly Sand per USDA]	
	2				
	191.5	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
	4				
189.5				Test pit complete at 5 Ft. due to refusal on highly-weathered rock.	
	6				
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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14 Worlds Fair Drive, Suite A
 Somerset, NJ 08873

LOG OF TEST PIT NO. TP-1016 (Stake #5057)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1017 (Stake #5056)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **10/18/2023**
 DATE COMPLETED: **10/18/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **192.7 Ft.**
 DATUM: **Survey**
 LOGGED BY: **AFS**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
192.2	0			6 In. of Topsoil	- Infiltration rate = 24 in/hr at 1/2 Ft. - NMC = 17.9%
		GM		Red-brown (5YR 4/4), moist, Silty GRAVEL [Gravelly Sand per USDA]	
191.2	2	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
	4				
186.7	6			Test pit complete at 6 Ft. due to refusal on highly-weathered rock.	
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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14 Worlds Fair Drive, Suite A
 Somerset, NJ 08873

LOG OF TEST PIT NO. TP-1017 (Stake #5056)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1018 (Stake #5055)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **10/18/2023**
 DATE COMPLETED: **10/18/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **192.3 Ft.**
 DATUM: **Survey**
 LOGGED BY: **AFS**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
191.8	0			6 In. of Topsoil	- Infiltration rate = 3 in/hr at 1 Ft.
		GM		Red-brown (5YR 4/4), moist, Silty GRAVEL with sand [Gravelly Sand per USDA]	
189.8	2				
		HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
	4				
186.3	6			Test pit complete at 6 Ft. due to refusal on highly-weathered rock.	
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



GEO-TECHNOLOGY ASSOCIATES, INC.

14 Worlds Fair Drive, Suite A
 Somerset, NJ 08873

LOG OF TEST PIT NO. TP-1018 (Stake #5055)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1019 (Stake #5012)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **10/13/2023**
 DATE COMPLETED: **10/13/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **187.7 Ft.**
 DATUM: **Survey**
 LOGGED BY: **AFS**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
187.0	0			8 In. of Topsoil	- Infiltration rate = 12 in/hr at 1/2 Ft.
		GM		Red-brown (5YR 4/4), moist, Silty GRAVEL with sand [Gravelly Sand per USDA]	
186.2	2	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	- Basin Flood Test performed at 5 Ft.
	4				
182.2	6			Test pit complete at 5-1/2 Ft. due to refusal on highly-weathered rock.	
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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 14 Worlds Fair Drive, Suite A
 Somerset, NJ 08873

LOG OF TEST PIT NO. TP-1019 (Stake #5012)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1020 (Stake #5011)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **10/13/2023**
 DATE COMPLETED: **10/13/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **182.4 Ft.**
 DATUM: **Survey**
 LOGGED BY: **AFS**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
181.6 180.9	0			10 In. of Topsoil	- Infiltration rate = 0 in/hr at 1 Ft.
		GM		Red-brown (5YR 4/4), moist, Silty GRAVEL with sand [Gravelly Sand per USDA]	
	2	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
176.4	4				- Basin Flood Test performed at 5 Ft.
	6				
					
					
					
					
					
					
					
					
	6			Test pit complete at 6 Ft. due to refusal on highly-weathered rock.	
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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14 Worlds Fair Drive, Suite A
 Somerset, NJ 08873

LOG OF TEST PIT NO. TP-1020 (Stake #5011)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1021 (Stake #5010)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **10/17/2023**
 DATE COMPLETED: **10/17/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **181.7 Ft.**
 DATUM: **Survey**
 LOGGED BY: **AFS**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
180.9	0			10 In. of Topsoil	- Infiltration rate = 0.5 in/hr at 1 Ft.
		SM		Red-brown (5YR 4/4), moist, Silty SAND with gravel [Sandy Loam per USDA]	
178.7	2				- Basin Flood Test performed at 5 Ft.
		HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
	4				
175.7	6			Test pit complete at 6 Ft. due to refusal on highly-weathered rock.	
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



GEO-TECHNOLOGY ASSOCIATES, INC.

14 Worlds Fair Drive, Suite A
 Somerset, NJ 08873

LOG OF TEST PIT NO. TP-1021 (Stake #5010)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1022 (Stake #5013)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **10/17/2023**
 DATE COMPLETED: **10/17/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **182.8 Ft.**
 DATUM: **Survey**
 LOGGED BY: **AFS**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
182.0	0			10 In. of Topsoil	- Infiltration rate = 0.5 in/hr at 1 Ft. - NMC = 20.5%
		ML		Brown (7.5YR 4/4), moist, Gravelly SILT [Silt Loam per USDA]	
180.8	2	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
	4				- Basin Flood Test performed at 4 Ft.
177.8				Test pit complete at 5 Ft. due to refusal on highly-weathered rock.	
	6				
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



GEO-TECHNOLOGY ASSOCIATES, INC.

14 Worlds Fair Drive, Suite A
 Somerset, NJ 08873

LOG OF TEST PIT NO. TP-1022 (Stake #5013)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1023 (Stake #5014)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **10/18/2023**
 DATE COMPLETED: **10/18/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **189.3 Ft.**
 DATUM: **Survey**
 LOGGED BY: **AFS**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
188.5	0			10 In. of Topsoil	- Infiltration rate = 0 in/hr at 2 Ft.
		ML		Brown (10YR 5/3), moist, Sandy SILT [Silt Loam per USDA]	
185.3	4	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
183.3	6			Test pit complete at 6 Ft. due to refusal on highly-weathered rock.	- Basin Flood Test performed at 6 Ft.
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



GEO-TECHNOLOGY ASSOCIATES, INC.

14 Worlds Fair Drive, Suite A
 Somerset, NJ 08873

LOG OF TEST PIT NO. TP-1023 (Stake #5014)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1024 (Stake #5015)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **10/18/2023**
 DATE COMPLETED: **10/18/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **190.3 Ft.**
 DATUM: **Survey**
 LOGGED BY: **AFS**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
189.5	0			10 In. of Topsoil	- Infiltration rate = 0 in/hr at 2-1/2 Ft.
		ML		Brown (7.5YR 4/4), moist, Sandy SILT [Silt Loam per USDA]	
186.3	4	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
182.3	8			Test pit complete at 8 Ft. due to refusal on highly-weathered rock.	- Basin Flood Test performed at 7 Ft.
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



GEO-TECHNOLOGY ASSOCIATES, INC.

14 Worlds Fair Drive, Suite A
 Somerset, NJ 08873

LOG OF TEST PIT NO. TP-1024 (Stake #5015)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1025 (Stake #5016)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **10/18/2023**
 DATE COMPLETED: **10/18/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **191.2 Ft.**
 DATUM: **Survey**
 LOGGED BY: **AFS**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
190.4	0			10 In. of Topsoil	- Infiltration test = 0 in/hr at 2 Ft.
		ML		Brown (7.5YR 4/4), moist, Sandy SILT [Silt Loam per USDA]	
187.2	4	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
184.2	6				
	7			Test pit complete at 7 Ft. due to refusal on highly-weathered rock.	- Basin Flood Test performed at 6 Ft.
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



GEO-TECHNOLOGY ASSOCIATES, INC.

14 Worlds Fair Drive, Suite A
 Somerset, NJ 08873

LOG OF TEST PIT NO. TP-1025 (Stake #5016)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1026 (Stake #5017)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **10/17/2023**
 DATE COMPLETED: **10/17/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **192.7 Ft.**
 DATUM: **Survey**
 LOGGED BY: **AFS**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
192.2	0			6 In. of Topsoil	- Infiltration rate = 0.5 in/hr at 3 Ft. - NMC = 21.6%
		ML		Brown (7.5YR 4/4), moist, Gravelly SILT with sand [Silt Loam per USDA]	
187.7	6	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
184.7	8			Test pit complete at 8 Ft. due to refusal on highly-weathered rock.	
	10				- Basin Flood Test performed at 7 Ft.
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



GEO-TECHNOLOGY ASSOCIATES, INC.

14 Worlds Fair Drive, Suite A
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LOG OF TEST PIT NO. TP-1026 (Stake #5017)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1027 (Stake #5019)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **10/17/2023**
 DATE COMPLETED: **10/17/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **193.6 Ft.**
 DATUM: **Survey**
 LOGGED BY: **AFS**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
193.1	0			6 In. of Topsoil	- Infiltration rate = 0.5 in/hr at 1 Ft.
		GM		Brown (7.5YR 4/4), moist, Silty GRAVEL with sand [Gravelly Sand per USDA]	
191.6	2	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
189.6	4			Test pit complete at 4 Ft. due to refusal on highly-weathered rock.	- Basin Flood Test performed at 4 Ft.
	6				
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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LOG OF TEST PIT NO. TP-1027 (Stake #5019)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1028 (Stake #5145)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **10/20/2023**
 DATE COMPLETED: **10/20/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **194.1 Ft.**
 DATUM: **Survey**
 LOGGED BY: **AFS**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
193.1	0			12 in. of Topsoil	- NMC = 24.2% - Infiltration rate = 0 in/hr at 2 Ft.
	2	ML		Brown (7.5YR 5/3), moist, SILT [Silt per USDA]	
190.6	4	GM		Red-brown (5YR 4/4), moist, Silty GRAVEL with sand [Gravelly Sand per USDA]	
190.1	4	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
188.1	6			Test pit complete at 6 Ft. due to refusal on highly-weathered rock.	
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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LOG OF TEST PIT NO. TP-1028 (Stake #5145)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1029 (Stake #5146)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **10/20/2023**
 DATE COMPLETED: **10/20/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **193.4 Ft.**
 DATUM: **Survey**
 LOGGED BY: **AFS**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
192.6	0			10 In. of Topsoil	- Infiltration rate = 0.5 in/hr at 2 Ft.
		ML		Red-brown (5YR 4/4), moist, Sandy SILT [Silt Loam per USDA]	
	2				
		GM		Red-brown (5YR 4/4), moist, Silty GRAVEL with sand [Gravelly Sand per USDA]	
190.4					
189.4	4	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
187.9	6			Test pit complete at 5-1/2 Ft. due to refusal on highly-weathered rock.	
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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 14 Worlds Fair Drive, Suite A
 Somerset, NJ 08873

LOG OF TEST PIT NO. TP-1029 (Stake #5146)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1030 (Stake #5147)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **11/14/2023**
 DATE COMPLETED: **11/14/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **187.0 Ft.**
 DATUM: **Survey**
 LOGGED BY: **VP**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
186.2 185.0 184.0 182.0	0			10 In. of Topsoil	- Infiltration rate = 0 in/hr at 1 Ft.
		ML		Brown (7.5YR 4/4), moist, SILT [Silt Loam per USDA]	
	2	GM		Red-brown (5YR 4/4), moist, Silty GRAVEL with sand [Gravelly Sand per USDA]	
	4	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
	5			Test pit complete at 5 Ft. due to refusal on highly-weathered rock.	
	6				
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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 Somerset, NJ 08873

LOG OF TEST PIT NO. TP-1030 (Stake #5147)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1031 (Stake #5148)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **11/14/2023**
 DATE COMPLETED: **11/14/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **186.3 Ft.**
 DATUM: **Survey**
 LOGGED BY: **VP**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
185.5	0			10 In. of Topsoil	- Infiltration rate = 0 in/hr at 2 Ft.
		ML		Dark yellow-brown (10YR 4/6), moist, Sandy SILT [Silt Loam per USDA]	
	2				
	183.3	GM		Red-brown (5YR 4/4), moist, Silty GRAVEL with sand [Gravelly Sand per USDA]	
	182.3	4	HW		
180.8	6			Test pit complete at 5-1/2 Ft. due to refusal on highly-weathered rock.	
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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 14 Worlds Fair Drive, Suite A
 Somerset, NJ 08873

LOG OF TEST PIT NO. TP-1031 (Stake #5148)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1032 (Stake #5149)

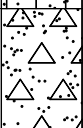
Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **11/14/2023**
 DATE COMPLETED: **11/14/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **182.9 Ft.**
 DATUM: **Survey**
 LOGGED BY: **VP**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
182.2 180.9 179.9 177.9	0			8 In. of Topsoil	- Infiltration rate = 0 in/hr at 1 Ft.
		ML		Dark yellow-brown (10YR 4/6), moist, SILT [Silt Loam per USDA]	
	2	SM		Red-brown (5YR 4/4), moist, Silty SAND with gravel [Sandy Loam per USDA]	
		HW		Very dark gray (5YR 3/1), moist, Highly-weathered ROCK (Shale)	
	4				
	6			Test pit complete at 5 Ft. due to refusal on highly-weathered rock.	
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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 14 Worlds Fair Drive, Suite A
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LOG OF TEST PIT NO. TP-1032 (Stake #5149)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1033 (Stake #5150)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **11/14/2023**
 DATE COMPLETED: **11/14/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **183.6 Ft.**
 DATUM: **Survey**
 LOGGED BY: **VP**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
182.8	0			10 In. of Topsoil	- Infiltration rate = 0 in/hr at 1 Ft.
		GM		Red-brown (5YR 4/4), moist, Silty GRAVEL with sand [Gravelly Sand per USDA]	
180.6	2				
		HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
178.1	4				
	6			Test pit complete at 5-1/2 Ft. due to refusal on highly-weathered rock.	
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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 Somerset, NJ 08873

LOG OF TEST PIT NO. TP-1033 (Stake #5150)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1034 (Stake #5151)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **11/14/2023**
 DATE COMPLETED: **11/14/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **194.3 Ft.**
 DATUM: **Survey**
 LOGGED BY: **VP**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
193.3	0			12 In. of Topsoil	- Infiltration rate = 0.5 in/hr at 1-1/2 Ft.
	2	GM		Red-brown (5YR 4/4), moist, Silty GRAVEL with sand [Gravelly Sand per USDA]	
	4	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
188.3	6			Test pit complete at 6 Ft. due to refusal on highly-weathered rock.	
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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14 Worlds Fair Drive, Suite A
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LOG OF TEST PIT NO. TP-1034 (Stake #5151)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1035 (Stake #5152)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **11/14/2023**
 DATE COMPLETED: **11/14/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **181.2 Ft.**
 DATUM: **Survey**
 LOGGED BY: **VP**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
180.4	0			10 In. of Topsoil	- Infiltration rate = 1 in/hr at 1 Ft.
		GM		Red-brown (5YR 4/4), moist, Silty GRAVEL with sand [Gravelly Sand per USDA]	
178.7	2	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
	4				
175.7	6			Test pit complete at 5-1/2 Ft. due to refusal on highly-weathered rock.	
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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14 Worlds Fair Drive, Suite A
 Somerset, NJ 08873

LOG OF TEST PIT NO. TP-1035 (Stake #5152)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1036 (Stake #5020)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **10/23/2023**
 DATE COMPLETED: **10/23/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **168.9 Ft.**
 DATUM: **Survey**
 LOGGED BY: **VP**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
168.1	0			10 In. of Topsoil	- Infiltration rate = 0.125 in/hr at 3 Ft.
		ML		Dark yellow-brown (10YR 3/6), moist, SILT with sand [Silt Loam per USDA]	
	2				
164.4	4	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	- Basin Flood Test performed at 7 Ft.
	6				
161.9				Test pit complete at 7 Ft. due to refusal on highly-weathered rock.	
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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 14 Worlds Fair Drive, Suite A
 Somerset, NJ 08873

LOG OF TEST PIT NO. TP-1036 (Stake #5020)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1037 (Stake #5021)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **10/23/2023**
 DATE COMPLETED: **10/23/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **169.4 Ft.**
 DATUM: **Survey**
 LOGGED BY: **VP**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
168.6	0			10 In. of Topsoil	- NMC = 16.4% - Infiltration rate = 0.125 in/hr at 3 Ft.
	2	ML		Red-brown (5YR 4/4), moist, Gravelly SILT with sand [Silt Loam per USDA]	
164.4	6	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
161.9	8			Test pit complete at 7-1/2 Ft. due to refusal on highly-weathered rock.	- Basin Flood Test performed at 7 Ft.
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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14 Worlds Fair Drive, Suite A
 Somerset, NJ 08873

LOG OF TEST PIT NO. TP-1037 (Stake #5021)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1038 (Stake #5022)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
PROJECT LOCATION: **Hopewell Township, New Jersey**
CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **10/23/2023**
DATE COMPLETED: **10/23/2023**
CONTRACTOR: **J.A. Neary Excavating**
EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
GROUND SURFACE ELEVATION: **172.9 Ft.**
DATUM: **Survey**
LOGGED BY: **VP**
CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
172.1	0			10 In. of Topsoil	- Infiltration rate = 3 in/hr at 3-1/2 Ft. - Basin Flood Test performed at 7 Ft.
		SM		Dark brown (7.5YR 3/4), moist, Silty SAND with gravel [Sandy Loam per USDA]	
169.4	4	GM		Red-brown (5YR 4/4), moist, Silty GRAVEL with sand [Gravelly Sand per USDA]	
167.4	6	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
164.9	8			Test pit complete at 8 Ft. due to refusal on highly-weathered rock.	
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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14 Worlds Fair Drive, Suite A
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LOG OF TEST PIT NO. TP-1038 (Stake #5022)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1039 (Stake #5023)

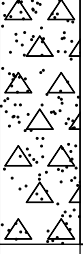
Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **10/23/2023**
 DATE COMPLETED: **10/23/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **174.8 Ft.**
 DATUM: **Survey**
 LOGGED BY: **VP**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
173.8	0			12 In. of Topsoil	- Infiltration rate = 1.5 in/hr at 2 Ft.
	2	GM		Red-brown (5YR 4/4), moist, Silty GRAVEL with sand [Gravelly Sand per USDA]	
170.8	4	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
166.8	8			Test pit complete at 8 Ft. due to refusal on highly-weathered rock.	- Basin Flood Test performed at 7 Ft.
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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14 Worlds Fair Drive, Suite A
 Somerset, NJ 08873

LOG OF TEST PIT NO. TP-1039 (Stake #5023)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1040 (Stake #5024)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **10/23/2023**
 DATE COMPLETED: **10/23/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **179.8 Ft.**
 DATUM: **Survey**
 LOGGED BY: **VP**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
179.3	0			6 In. of Topsoil	
		ML		Brown (7.5YR 4/6), moist, Sandy SILT [Silt Loam per USDA]	
	2				- Infiltration rate = 0 in/hr at 1-1/2 Ft.
176.3	4	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
	6				- Basin Flood Test performed at 6 Ft.
172.8	7			Test pit complete at 7 Ft. due to refusal on highly-weathered rock.	
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



GEO-TECHNOLOGY ASSOCIATES, INC.

14 Worlds Fair Drive, Suite A
 Somerset, NJ 08873

LOG OF TEST PIT NO. TP-1040 (Stake #5024)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1041 (Stake #5025)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **10/24/2023**
 DATE COMPLETED: **10/24/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **177.5 Ft.**
 DATUM: **Survey**
 LOGGED BY: **VP**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
177.0	0			6 In. of Topsoil	- Infiltration rate = 0.5 in/hr at 1/2 Ft.
		SM		Dark yellow-brown (10YR 4/6), moist, Silty SAND [Sandy Loam per USDA]	
175.0	2	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	- Basin Flood Test performed at 5 Ft.
	4				
	6				
171.0				Test pit complete at 6-1/2 Ft. due to refusal on highly-weathered rock.	
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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14 Worlds Fair Drive, Suite A
 Somerset, NJ 08873

LOG OF TEST PIT NO. TP-1041 (Stake #5025)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1042 (Stake #5026)

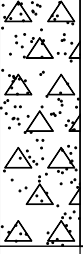
Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **10/24/2023**
 DATE COMPLETED: **10/24/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **179.3 Ft.**
 DATUM: **Survey**
 LOGGED BY: **VP**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
178.8	0			6 In. of Topsoil	
		SM		Brown (7.5YR 4/6), moist, Silty SAND with gravel [Sandy Loam per USDA]	
177.3	2	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	- Infiltration rate = 0 in/hr at 1 Ft. - Basin Flood Test performed at 5 Ft.
	4				
173.3	6			Test pit complete at 6 Ft. due to refusal on highly-weathered rock.	
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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LOG OF TEST PIT NO. TP-1042 (Stake #5026)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1043 (Stake #5027)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **10/24/2023**
 DATE COMPLETED: **10/24/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **183.8 Ft.**
 DATUM: **Survey**
 LOGGED BY: **VP**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
183.3	0			6 In. of Topsoil	- Infiltration rate = 0 in/hr at 1 Ft. - NMC = 21.6%
		ML		Brown (7.5YR 4/6), moist, SILT [Silt per USDA]	
	2	ML			
180.8	4	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	- Basin Flood Test performed at 5 Ft.
177.8	6			Test pit complete at 6 Ft. due to refusal on highly-weathered rock.	
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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LOG OF TEST PIT NO. TP-1043 (Stake #5027)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1044 (Stake #5028)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **10/24/2023**
 DATE COMPLETED: **10/24/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **182.7 Ft.**
 DATUM: **Survey**
 LOGGED BY: **VP**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
182.1	0			8 In. of Topsoil	- Infiltration rate = 0 in/hr at 1 Ft.
		ML		Brown (7.5YR 4/6), moist, Sandy SILT [Silt Loam per USDA]	
179.7	2				- Basin Flood Test performed at 4-1/2 Ft.
	4	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
176.7	6			Test pit complete at 6 Ft. due to refusal on highly-weathered rock.	
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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LOG OF TEST PIT NO. TP-1044 (Stake #5028)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1045 (Stake #5029)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **10/24/2023**
 DATE COMPLETED: **10/24/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **183.4 Ft.**
 DATUM: **Survey**
 LOGGED BY: **VP**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
182.8	0			8 In. of Topsoil	
		SM		Brown (7.5YR 4/6), moist, Silty SAND [Sandy Loam per USDA]	
180.9	2	GM		Red-brown (5YR 4/4), moist, Silty GRAVEL with sand [Gravelly Sand per USDA]	- Infiltration rate = 0.5 in/hr at 3 Ft.
	4				
178.4	6	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
176.4	7			Test pit complete at 7 Ft. due to refusal on highly-weathered rock.	- Basin Flood Test performed at 7 Ft.
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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LOG OF TEST PIT NO. TP-1045 (Stake #5029)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1046 (Stake #5085)

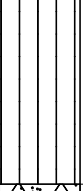
Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **10/26/2023**
 DATE COMPLETED: **10/26/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **188.5 Ft.**
 DATUM: **Survey**
 LOGGED BY: **VP**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
187.5	0			12 In. of Topsoil	- Infiltration rate = 0.25 in/hr at 2 Ft.
	2	ML		Brown (7.5YR 4/4), moist, Sandy SILT [Silt Loam per USDA]	
184.5	4	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
182.5	6			Test pit complete at 6 Ft. due to refusal on highly-weathered rock.	
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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LOG OF TEST PIT NO. TP-1046 (Stake #5085)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1047 (Stake #5086)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **10/26/2023**
 DATE COMPLETED: **10/26/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **191.9 Ft.**
 DATUM: **Survey**
 LOGGED BY: **VP**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
191.4	0			6 In. of Topsoil	- Infiltration rate = 0 in/hr at 1/2 Ft.
		ML		Brown (7.5YR 4/4), moist, Sandy SILT [Silt Loam per USDA]	
190.4	2	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
185.9	6			Test pit complete at 6 Ft. due to refusal on highly-weathered rock.	
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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LOG OF TEST PIT NO. TP-1047 (Stake #5086)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1048 (Stake #5087)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **10/26/2023**
 DATE COMPLETED: **10/26/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **193.4 Ft.**
 DATUM: **Survey**
 LOGGED BY: **VP**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
192.8	0			8 In. of Topsoil	- Infiltration rate = 0 in/hr at 2 Ft.
		ML		Brown (7.5YR 4/6) and red-brown (5YR 4/4), moist, Sandy SILT [Silt Loam per USDA]	
189.4	4	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
186.4	7			Test pit complete at 7 Ft. due to refusal on highly-weathered rock.	
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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LOG OF TEST PIT NO. TP-1048 (Stake #5087)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1049 (Stake #5088)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **10/26/2023**
 DATE COMPLETED: **10/26/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **189.9 Ft.**
 DATUM: **Survey**
 LOGGED BY: **VP**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
189.1	0			10 In. of Topsoil	- Infiltration rate = 0 in/hr at 1 Ft. - NMC = 11.9%
		ML		Dark yellow-brown (10YR 4/6), moist, SILT with sand [Silt Loam per USDA]	
186.9	2	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
	4				
	6				
181.9	8			Test pit complete at 8 Ft. due to refusal on highly-weathered rock.	
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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LOG OF TEST PIT NO. TP-1049 (Stake #5088)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1050 (Stake #5082)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **10/26/2023**
 DATE COMPLETED: **10/26/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **190.4 Ft.**
 DATUM: **Survey**
 LOGGED BY: **VP**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
189.6	0			10 In. of Topsoil	- Infiltration rate = 0 in/hr at 2 Ft.
		SM		Brown (7.5YR 4/4), moist, Silty SAND with gravel [Sandy Loam per USDA]	
186.4	4	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
184.4	6			Test pit complete at 6 Ft. due to refusal on highly-weathered rock.	
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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LOG OF TEST PIT NO. TP-1050 (Stake #5082)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1051 (Stake #5083)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **10/26/2023**
 DATE COMPLETED: **10/26/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **190.3 Ft.**
 DATUM: **Survey**
 LOGGED BY: **VP**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
189.7	0			8 In. of Topsoil	- Infiltration rate = 0 in/hr at 2-1/2 Ft. - NMC = 10.0%
		ML		Brown (7.5YR 4/4), moist, Sandy SILT [Silt Loam per USDA]	
	2			- Red-brown (5YR 4/4), moist, Gravelly SILT with sand [Loam per USDA] at 2-1/2 Ft.	
185.8	4				
		HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
	6				
183.8				Test pit complete at 6-1/2 Ft. due to refusal on highly-weathered rock.	
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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LOG OF TEST PIT NO. TP-1051 (Stake #5083)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1052 (Stake #5084)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **10/26/2023**
 DATE COMPLETED: **10/26/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **189.6 Ft.**
 DATUM: **Survey**
 LOGGED BY: **VP**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
188.8	0			10 In. of Topsoil	- Infiltration rate = 0 in/hr at 2 Ft.
		ML		Brown (7.5YR 4/4), moist, Sandy SILT [Silt Loam per USDA]	
	2			- with gravel at 3 Ft.	
185.6	4	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
183.6	6			Test pit complete at 6 Ft. due to refusal on highly-weathered rock.	
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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LOG OF TEST PIT NO. TP-1052 (Stake #5084)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1053 (Stake #5079)

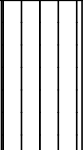
Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **10/20/2023**
 DATE COMPLETED: **10/20/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **199.4 Ft.**
 DATUM: **Survey**
 LOGGED BY: **AFS**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
198.4	0			12 In. of Topsoil	- Infiltration rate = 0.5 in/hr at 1-1/2 Ft. - NMC = 22.1%
		ML		Brown (7.5YR 4/4), moist, Sandy SILT [Silt Loam per USDA]	
				- Brown (7.5YR 5/3) at 3 Ft.	
195.9	4	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
194.9				Test pit complete at 4-1/2 Ft. due to refusal on highly-weathered rock.	
	6				
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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LOG OF TEST PIT NO. TP-1053 (Stake #5079)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1054 (Stake #5080)

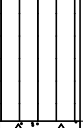
Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **10/20/2023**
 DATE COMPLETED: **10/20/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **200.3 Ft.**
 DATUM: **Survey**
 LOGGED BY: **AFS**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
199.3	0			12 In. of Topsoil	- Infiltration rate = 0 in/hr at 2 Ft.
		CL		Dark yellow-brown (10YR 4/6), moist, Sandy Lean CLAY [Clay per USDA]	
198.3	2	ML		Dark yellow-brown (10YR 4/6) and light brown-gray (10YR 6/2), moist, Sandy SILT [Silt Loam per USDA]	
196.3	4	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
195.3				Test pit complete at 5 Ft. due to refusal on highly-weathered rock.	
	6				
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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LOG OF TEST PIT NO. TP-1054 (Stake #5080)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1055 (Stake #5081)

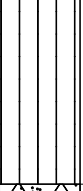
Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **10/20/2023**
 DATE COMPLETED: **10/20/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **200.9 Ft.**
 DATUM: **Survey**
 LOGGED BY: **AFS**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
199.9	0			12 In. of Topsoil	- Infiltration rate = 0 in/hr at 2 Ft.
	2	ML		Brown (7.5YR 4/4), moist, Sandy SILT [Silt Loam per USDA] - Red-brown (5YR 4/4), with gravel at 2 Ft.	
196.9	4	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
194.9	6			Test pit complete at 6 Ft. due to refusal on highly-weathered rock.	
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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LOG OF TEST PIT NO. TP-1055 (Stake #5081)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1056 (Stake #5073)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **10/19/2023**
 DATE COMPLETED: **10/19/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **200.9 Ft.**
 DATUM: **Survey**
 LOGGED BY: **AFS**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
200.2	0			8 In. of Topsoil	
		ML		Brown (7.5YR 4/4), moist, SILT [Silt Loam per USDA]	
	2				- Infiltration rate = 0 in/hr at 4 Ft.
	4				
	6			- Red-brown (5YR 4/4), with gravel at 5 Ft.	- Slight perched water seepage at 6-1/2 Ft.
194.4		HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
	8				
	10			Test pit complete at 10 Ft. due to refusal on highly-weathered rock.	
190.9					
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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LOG OF TEST PIT NO. TP-1056 (Stake #5073)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1057 (Stake #5074)

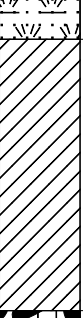
Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **10/19/2023**
 DATE COMPLETED: **10/19/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **201.0 Ft.**
 DATUM: **Survey**
 LOGGED BY: **AFS**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL	DESCRIPTION	REMARKS
200.3	0			8 In. of Topsoil	
	2	CL		Dark yellow-brown (10YR 4/6), moist, Lean CLAY [Clay per USDA]	
196.0	6	GM		Red-brown (5YR 4/4), moist, Silty GRAVEL [Gravelly Sand per USDA]	- NMC = 22.1% - Infiltration rate = 0 in/hr at 4 Ft.
194.5	8	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	- Rapid perched water seepage at 6-1/2 Ft.
189.0	12			Test pit complete at 12 Ft. due to refusal on highly-weathered rock.	
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
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LOG OF TEST PIT NO. TP-1057 (Stake #5074)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1058 (Stake #5075)

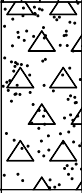
Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **10/19/2023**
 DATE COMPLETED: **10/19/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **200.1 Ft.**
 DATUM: **Survey**
 LOGGED BY: **AFS**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
199.4	0			8 In. of Topsoil	- Infiltration rate = 0 in/hr at 1 Ft.
		ML		Brown (7.5YR 4/4), moist, Sandy SILT [Silt Loam per USDA]	
198.1	2	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
	4				
195.1				Test pit complete at 5 Ft. due to refusal on highly-weathered rock.	
	6				
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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14 Worlds Fair Drive, Suite A
 Somerset, NJ 08873

LOG OF TEST PIT NO. TP-1058 (Stake #5075)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1059 (Stake #5076)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **10/19/2023**
 DATE COMPLETED: **10/19/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **200.0 Ft.**
 DATUM: **Survey**
 LOGGED BY: **AFS**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
199.3	0			8 In. of Topsoil	- Infiltration rate = 0 in/hr at 1 Ft.
		ML		Brown (7.5YR 4/4), moist, SILT [Silt Loam per USDA]	
197.5	2			Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
	4				
195.0					
	6			Test pit complete at 5 Ft. due to refusal on highly-weathered rock.	
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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14 Worlds Fair Drive, Suite A
 Somerset, NJ 08873

LOG OF TEST PIT NO. TP-1059 (Stake #5076)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1060 (Stake #5077)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **10/19/2023**
 DATE COMPLETED: **10/19/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **197.6 Ft.**
 DATUM: **Survey**
 LOGGED BY: **AFS**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
196.9	0			8 In. of Topsoil	- Infiltration rate = 1.5 in/hr at 1 Ft.
196.1		ML		Brown (7.5YR 4/4), moist, Sandy SILT [Silt Loam per USDA]	
	2	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
	4				
	6				
190.6				Test pit complete at 7 Ft. due to refusal on highly-weathered rock.	
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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14 Worlds Fair Drive, Suite A
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LOG OF TEST PIT NO. TP-1060 (Stake #5077)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1061 (Stake #5078)

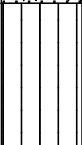
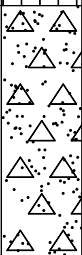
Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **10/19/2023**
 DATE COMPLETED: **10/19/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **197.3 Ft.**
 DATUM: **Survey**
 LOGGED BY: **AFS**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
196.6	0			8 In. of Topsoil	- Infiltration rate = 0 in/hr at 1 Ft.
		ML		Brown (7.5YR 4/4), moist, Sandy SILT [Silt Loam per USDA]	
194.3	2	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
	4				
	6				
190.3					
	8			Test pit complete at 7 Ft. due to refusal on highly-weathered rock.	
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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14 Worlds Fair Drive, Suite A
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LOG OF TEST PIT NO. TP-1061 (Stake #5078)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1062 (Stake #5072)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **10/27/2023**
 DATE COMPLETED: **10/27/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **203.7 Ft.**
 DATUM: **Survey**
 LOGGED BY: **VP**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
202.9	0			10 In. of Topsoil	- Infiltration rate = 0 in/hr at 3 Ft. - Rapid perched water seepage at 5 Ft.
		ML		Dark yellow-brown (10YR 4/6), moist, SILT [Silt per USDA]	
200.7	2				
		SM		Red-brown (5YR 4/4), moist, Silty SAND with gravel [Sandy Loam per USDA]	
198.7	4				- Rapid perched water seepage at 5 Ft.
		HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
	6				
195.7	8			Test pit complete at 8 Ft. due to refusal on highly-weathered rock.	
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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14 Worlds Fair Drive, Suite A
 Somerset, NJ 08873

LOG OF TEST PIT NO. TP-1062 (Stake #5072)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1063 (Stake #5071)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **10/27/2023**
 DATE COMPLETED: **10/27/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **203.5 Ft.**
 DATUM: **Survey**
 LOGGED BY: **VP**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
202.7	0			10 In. of Topsoil	- Infiltration rate = 0 in/hr at 2-1/2 Ft.
		ML		Red-brown (5YR 4/3), moist, Sandy SILT [Silt Loam per USDA]	
199.0	4			Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
	6	HW			
195.5	8			Test pit complete at 8 Ft. due to refusal on highly-weathered rock.	- Rapid trapped water seepage at 5 Ft.
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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LOG OF TEST PIT NO. TP-1063 (Stake #5071)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1064 (Stake #5070)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **10/27/2023**
 DATE COMPLETED: **10/27/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **203.8 Ft.**
 DATUM: **Survey**
 LOGGED BY: **VP**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
203.0	0			10 In. of Topsoil	- Infiltration rate = 0 in/hr at 1-1/2 Ft.
		GM		Dark brown (10YR 3/3), moist, Silty GRAVEL with sand [Gravelly Sand per USDA]	
201.8	2	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
	4				
198.8					
	6			Test pit complete at 5 Ft. due to refusal on highly-weathered rock.	
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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14 Worlds Fair Drive, Suite A
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LOG OF TEST PIT NO. TP-1064 (Stake #5070)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1065 (Stake #5069)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **10/27/2023**
 DATE COMPLETED: **10/27/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **204.1 Ft.**
 DATUM: **Survey**
 LOGGED BY: **VP**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
203.3	0			10 In. of Topsoil	- Infiltration rate = 0 in/hr at 1 Ft.
		GM		Dark brown (10YR 3/3), moist, Silty GRAVEL with sand [Gravelly Sand per USDA]	
202.1	2	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
	4				
198.6	6			Test pit complete at 5-1/2 Ft. due to refusal on highly-weathered rock.	
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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14 Worlds Fair Drive, Suite A
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LOG OF TEST PIT NO. TP-1065 (Stake #5069)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1066 (Stake #5068)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **10/27/2023**
 DATE COMPLETED: **10/27/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **204.1 Ft.**
 DATUM: **Survey**
 LOGGED BY: **VP**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
203.3 202.6	0			10 In. of Topsoil	- Infiltration rate = 0 in/hr at 1 Ft.
		GM		Dark brown (10YR 3/3), moist, Silty GRAVEL with sand [Gravelly Sand per USDA]	
	2	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
198.6	4				
	6			Test pit complete at 5-1/2 Ft. due to refusal on highly-weathered rock.	
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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14 Worlds Fair Drive, Suite A
 Somerset, NJ 08873

LOG OF TEST PIT NO. TP-1066 (Stake #5068)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1067 (Stake #5067)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **10/27/2023**
 DATE COMPLETED: **10/27/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **204.1 Ft.**
 DATUM: **Survey**
 LOGGED BY: **VP**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
203.3 202.6	0			10 In. of Topsoil	- Infiltration rate = 0 in/hr at 1 Ft.
		GM		Dark brown (10YR 3/3), moist, Silty GRAVEL with sand [Gravelly Sand per USDA]	
	2	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
198.1	4				
	6				
	8				
	10				
	12				
	14				
	16				
	18				
				Test pit complete at 6 Ft. due to refusal on highly-weathered rock.	

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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LOG OF TEST PIT NO. TP-1067 (Stake #5067)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1068 (Stake #5066)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **10/27/2023**
 DATE COMPLETED: **10/27/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **206.6 Ft.**
 DATUM: **Survey**
 LOGGED BY: **VP**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
205.8	0			10 In. of Topsoil	- Infiltration rate = 0 in/hr at 1 Ft.
		ML		Dark yellow-brown (10YR 4/6), moist, Sandy SILT [Silt Loam per USDA]	
	2				
203.6		HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
201.6	4				
	6			Test pit complete at 5 Ft. due to refusal on highly-weathered rock.	
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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14 Worlds Fair Drive, Suite A
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LOG OF TEST PIT NO. TP-1068 (Stake #5066)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1069 (Stake #5065)

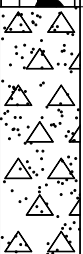
Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **10/27/2023**
 DATE COMPLETED: **10/27/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **206.9 Ft.**
 DATUM: **Survey**
 LOGGED BY: **VP**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
206.3	0			8 In. of Topsoil	- Infiltration test attempted at 1 Ft.
		GM		Brown (10YR 4/3), moist, Silty GRAVEL with sand [Gravelly Sand per USDA]	
205.4	2	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
201.4	6			Test pit complete at 5-1/2 Ft. due to refusal on highly-weathered rock.	
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



GEO-TECHNOLOGY ASSOCIATES, INC.

14 Worlds Fair Drive, Suite A
 Somerset, NJ 08873

LOG OF TEST PIT NO. TP-1069 (Stake #5065)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1070 (Stake #5064)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **10/27/2023**
 DATE COMPLETED: **10/27/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **205.7 Ft.**
 DATUM: **Survey**
 LOGGED BY: **VP**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
205.1	0			8 In. of Topsoil	- Infiltration test attempted at 1 Ft.
		GM		Dark yellow-brown (10YR 4/6), moist, Silty GRAVEL with sand [Gravelly Sand per USDA]	
204.2	2	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
198.7	7			Test pit complete at 7 Ft. due to refusal on highly-weathered rock.	
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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14 Worlds Fair Drive, Suite A
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LOG OF TEST PIT NO. TP-1070 (Stake #5064)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1071 (Stake #5063)

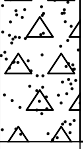
Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **10/27/2023**
 DATE COMPLETED: **10/27/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **204.2 Ft.**
 DATUM: **Survey**
 LOGGED BY: **VP**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
203.2	0			12 In. of Topsoil	- Infiltration test attempted at 1 Ft.
		GM		Dark brown (10YR 3/3), moist, Silty GRAVEL with sand [Gravelly Sand per USDA]	
	2				
201.7		HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
	4				
199.2				Test pit complete at 5 Ft. due to refusal on highly-weathered rock.	
	6				
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



GEO-TECHNOLOGY ASSOCIATES, INC.

14 Worlds Fair Drive, Suite A
 Somerset, NJ 08873

LOG OF TEST PIT NO. TP-1071 (Stake #5063)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1072 (Stake #5121)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **11/02/2023**
 DATE COMPLETED: **11/02/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **186.1 Ft.**
 DATUM: **Survey**
 LOGGED BY: **VP**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
185.3	0			10 In. of Topsoil	- Infiltration rate = 2 in/hr at 1 Ft.
		SM		Red-brown (5YR 4/4), moist, Silty SAND with gravel [Sandy Loam per USDA]	
183.1	2				
		HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
	4				
	6				
179.1				Test pit complete at 7 Ft. due to refusal on highly-weathered rock.	
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



GEO-TECHNOLOGY ASSOCIATES, INC.

14 Worlds Fair Drive, Suite A
 Somerset, NJ 08873

LOG OF TEST PIT NO. TP-1072 (Stake #5121)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1073 (Stake #5120)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **11/02/2023**
 DATE COMPLETED: **11/02/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **183.8 Ft.**
 DATUM: **Survey**
 LOGGED BY: **VP**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
183.0	0			10 In. of Topsoil	- Infiltration rate = 2 in/hr at 1 Ft. - NMC = 16.4%
		GM		Red-brown (5YR 4/4), moist, Silty GRAVEL with sand [Gravelly Sand per USDA]	
180.8	2				
		HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
	4				
	6				
176.3	8			Test pit complete at 7-1/2 Ft. due to refusal on highly-weathered rock.	
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



GEO-TECHNOLOGY ASSOCIATES, INC.

14 Worlds Fair Drive, Suite A
 Somerset, NJ 08873

LOG OF TEST PIT NO. TP-1073 (Stake #5120)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1074 (Stake #5119)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **11/02/2023**
 DATE COMPLETED: **11/02/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **181.4 Ft.**
 DATUM: **Survey**
 LOGGED BY: **VP**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
180.6	0			10 In. of Topsoil	- Infiltration rate = 2 in/hr at 1 Ft.
		SM		Red-brown (5YR 4/4), moist, Silty SAND with gravel [Sandy Loam per USDA]	
178.4	2				
		HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
	4				
	6				
174.4				Test pit complete at 7 Ft. due to refusal on highly-weathered rock.	
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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14 Worlds Fair Drive, Suite A
 Somerset, NJ 08873

LOG OF TEST PIT NO. TP-1074 (Stake #5119)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1075 (Stake #5118)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **11/02/2023**
 DATE COMPLETED: **11/02/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **179.8 Ft.**
 DATUM: **Survey**
 LOGGED BY: **VP**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
179.0	0			10 In. of Topsoil	- Infiltration rate = 2 in/hr at 1 Ft.
		SM		Red-brown (5YR 4/4), moist, Silty SAND with gravel [Sandy Loam per USDA]	
176.8	2				
		HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
173.8	4				
	6			Test pit complete at 6 Ft. due to refusal on highly-weathered rock.	
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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 Somerset, NJ 08873

LOG OF TEST PIT NO. TP-1075 (Stake #5118)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1076 (Stake #5117)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **11/02/2023**
 DATE COMPLETED: **11/02/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **200.3 Ft.**
 DATUM: **Survey**
 LOGGED BY: **VP**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
199.5 198.3 197.3 193.8	0			10 In. of Topsoil	- Infiltration rate = 0 in/hr at 1 Ft.
		ML		Brown (7.5YR 4/4), moist, Sandy SILT [Silt Loam per USDA]	
	2	GM		Brown (7.5YR 4/4), moist, Silty GRAVEL with sand [Gravelly Sand per USDA]	
	4	HW		Red-brown (5YR 4/4) to very dark gray (5YR 3/1), moist, Highly-weathered ROCK (Shale)	
	6			Test pit complete at 6-1/2 Ft. due to refusal on highly-weathered rock.	
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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14 Worlds Fair Drive, Suite A
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LOG OF TEST PIT NO. TP-1076 (Stake #5117)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1077 (Stake #5116)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **11/02/2023**
 DATE COMPLETED: **11/02/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **201.2 Ft.**
 DATUM: **Survey**
 LOGGED BY: **VP**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
200.4 199.2 198.2 195.2	0			10 In. of Topsoil	- Infiltration rate = 0 in/hr at 1 Ft.
		ML		Dark yellow-brown (10YR 3/4), moist, Sandy SILT [Silt Loam per USDA]	
	2	GM		Dark yellow-brown (10YR 3/4), moist, Silty GRAVEL with sand [Gravelly Sand per USDA]	
	4	HW		Red-brown (5YR 4/4) to very dark gray (5YR 3/1), moist, Highly-weathered ROCK (Shale)	
	6			Test pit complete at 6 Ft. due to refusal on highly-weathered rock.	
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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14 Worlds Fair Drive, Suite A
 Somerset, NJ 08873

LOG OF TEST PIT NO. TP-1077 (Stake #5116)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1078 (Stake #5030)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **10/30/2023**
 DATE COMPLETED: **10/30/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **197.6 Ft.**
 DATUM: **Survey**
 LOGGED BY: **VP**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
196.8	0			10 In. of Topsoil	- Infiltration rate = 0 in/hr at 3 Ft.
		ML		Yellow-brown (10YR 5/6), moist, Sandy SILT [Silt Loam per USDA]	
194.6	2				
	4	GM		Dark yellow-brown (10YR 4/6), moist, Silty GRAVEL with sand [Gravelly Sand per USDA]	
192.6	6	HW		Red-brown (5YR 4/4) to very dark gray (5YR 3/1), moist, Highly-weathered ROCK (Shale)	- Basin Flood Test performed at 8 Ft.
189.6	8			Test pit complete at 8 Ft. due to refusal on highly-weathered rock.	
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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14 Worlds Fair Drive, Suite A
 Somerset, NJ 08873

LOG OF TEST PIT NO. TP-1078 (Stake #5030)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1079 (Stake #5031)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **10/30/2023**
 DATE COMPLETED: **10/30/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **196.9 Ft.**
 DATUM: **Survey**
 LOGGED BY: **VP**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
196.2	0			8 In. of Topsoil	- Infiltration rate = 0 in/hr at 1 Ft.
		GM		Dark yellow-brown (10YR 4/6), moist, Silty GRAVEL with sand [Gravelly Sand per USDA]	
193.9	2				
		HW		Red-brown (5YR 4/4) to very dark gray (5YR 3/1), moist, Highly-weathered ROCK (Shale)	
191.9	4				
				Test pit complete at 5 Ft. due to refusal on highly-weathered rock.	- Basin Flood Test performed at 5 Ft.
	6				
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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14 Worlds Fair Drive, Suite A
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LOG OF TEST PIT NO. TP-1079 (Stake #5031)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1080 (Stake #5032)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **10/30/2023**
 DATE COMPLETED: **10/30/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **194.9 Ft.**
 DATUM: **Survey**
 LOGGED BY: **VP**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
194.2	0			8 In. of Topsoil	- Infiltration rate = 0 in/hr at 1 Ft. - NMC = 15.6%
		GM		Brown (7.5YR 4/4), moist, Silty GRAVEL [Gravelly Sand per USDA]	
191.9	2	HW		Red-brown (5YR 4/4) to very dark gray (5YR 3/1), moist, Highly-weathered ROCK (Shale)	
	4				- Basin Flood Test performed at 5 Ft.
	6				
187.9				Test pit complete at 7 Ft. due to refusal on highly-weathered rock.	
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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14 Worlds Fair Drive, Suite A
 Somerset, NJ 08873

LOG OF TEST PIT NO. TP-1080 (Stake #5032)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1081 (Stake #5033)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **10/30/2023**
 DATE COMPLETED: **10/30/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **192.8 Ft.**
 DATUM: **Survey**
 LOGGED BY: **VP**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
192.1	0			8 In. of Topsoil	- Infiltration rate = 0 in/hr at 1 Ft.
		GM		Brown (7.5YR 4/4), moist, Silty GRAVEL with sand [Gravelly Sand per USDA]	
190.8	2	HW		Red-brown (5YR 4/4) to very dark gray (5YR 3/1), moist, Highly-weathered ROCK (Shale)	
	4				- Basin Flood Test performed at 5 Ft.
	6				
185.8	7			Test pit complete at 7 Ft. due to refusal on highly-weathered rock.	
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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14 Worlds Fair Drive, Suite A
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LOG OF TEST PIT NO. TP-1081 (Stake #5033)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1082 (Stake #5106)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **11/02/2023**
 DATE COMPLETED: **11/02/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **208.4 Ft.**
 DATUM: **Survey**
 LOGGED BY: **VP**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
207.6	0			10 In. of Topsoil	- Infiltration rate = 0 in/hr at 2 Ft.
		ML		Brown (7.5YR 4/4), moist, Sandy SILT [Silt Loam per USDA]	
204.4	4	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
200.4	8			Test pit complete at 8 Ft. due to refusal on highly-weathered rock.	
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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14 Worlds Fair Drive, Suite A
 Somerset, NJ 08873

LOG OF TEST PIT NO. TP-1082 (Stake #5106)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1083 (Stake #5107)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **11/02/2023**
 DATE COMPLETED: **11/02/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **208.7 Ft.**
 DATUM: **Survey**
 LOGGED BY: **VP**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
207.9	0			10 In. of Topsoil	- Infiltration rate = 0 in/hr at 1 Ft.
		ML		Brown (7.5YR 4/4), moist, Sandy SILT [Silt Loam per USDA]	
205.7	2				
		HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
202.7	6			Test pit complete at 6 Ft. due to refusal on highly-weathered rock.	
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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 Somerset, NJ 08873

LOG OF TEST PIT NO. TP-1083 (Stake #5107)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1084 (Stake #5108)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **11/03/2023**
 DATE COMPLETED: **11/03/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **208.9 Ft.**
 DATUM: **Survey**
 LOGGED BY: **VP**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
208.1	0			10 In. of Topsoil	- Infiltration rate = 0 in/hr at 1 Ft.
		SM		Red-brown (5YR 4/4), moist, Silty SAND with gravel [Sandy Loam per USDA]	
205.9	2				
		HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
202.9	4				
	6			Test pit complete at 6 Ft. due to refusal on highly-weathered rock.	
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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14 Worlds Fair Drive, Suite A
 Somerset, NJ 08873

LOG OF TEST PIT NO. TP-1084 (Stake #5108)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1085 (Stake #5109)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **11/03/2023**
 DATE COMPLETED: **11/03/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **208.7 Ft.**
 DATUM: **Survey**
 LOGGED BY: **VP**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
207.9	0			10 In. of Topsoil	- Infiltration rate = 0 in/hr at 2 Ft.
		ML		Red-brown (5YR 4/4), moist, SILT with sand [Silt Loam per USDA]	
206.2	2	SM		Red-brown (5YR 4/4), moist, Silty SAND with gravel [Sandy Loam per USDA]	
204.7	4	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
202.2	6			Test pit complete at 6-1/2 Ft. due to refusal on highly-weathered rock.	
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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14 Worlds Fair Drive, Suite A
 Somerset, NJ 08873

LOG OF TEST PIT NO. TP-1085 (Stake #5109)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1086 (Stake #5110)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **11/03/2023**
 DATE COMPLETED: **11/03/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **207.7 Ft.**
 DATUM: **Survey**
 LOGGED BY: **VP**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
206.9	0			10 In. of Topsoil	- NMC = 20.3% - Infiltration rate = 0 in/hr at 2-1/2 Ft.
		CI		Red-brown (5YR 4/4), moist, Lean CLAY [Clay per USDA]	
	2				
	204.7	SM		Red-brown (5YR 4/4), moist, Silty SAND with gravel [Sandy Loam per USDA]	
203.2	4				
		HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
201.7	6			Test pit complete at 6 Ft. due to refusal on highly-weathered rock.	
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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14 Worlds Fair Drive, Suite A
 Somerset, NJ 08873

LOG OF TEST PIT NO. TP-1086 (Stake #5110)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1087 (Stake #5111)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **11/03/2023**
 DATE COMPLETED: **11/03/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **207.3 Ft.**
 DATUM: **Survey**
 LOGGED BY: **VP**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
206.5	0			10 In. of Topsoil	- Infiltration rate = 0 in/hr at 2-1/2 Ft.
		ML		Brown (7.5YR 4/6), moist, SILT with sand [Silt Loam per USDA]	
	2				
	204.3	SM		Brown (10YR 4/6), moist, Silty SAND with gravel [Sandy Loam per USDA]	
202.8	4				
		HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
201.3	6			Test pit complete at 6 Ft. due to refusal on highly-weathered rock.	
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



GEO-TECHNOLOGY ASSOCIATES, INC.
 14 Worlds Fair Drive, Suite A
 Somerset, NJ 08873

LOG OF TEST PIT NO. TP-1087 (Stake #5111)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1088 (Stake #5112)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **11/03/2023**
 DATE COMPLETED: **11/03/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **206.4 Ft.**
 DATUM: **Survey**
 LOGGED BY: **VP**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
205.6	0			10 In. of Topsoil	- Infiltration rate = 0 in/hr at 3-1/2 Ft.
		ML		Dark yellow-brown (10YR 4/6), moist, SILT with sand [Silt Loam per USDA]	
202.4	4	SM		Red-brown (5YR 4/4), moist, Silty SAND with gravel [Sandy Loam per USDA]	
200.9	6	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
198.9	8			Test pit complete at 7-1/2 Ft. due to refusal on highly-weathered rock.	
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



GEO-TECHNOLOGY ASSOCIATES, INC.

14 Worlds Fair Drive, Suite A
 Somerset, NJ 08873

LOG OF TEST PIT NO. TP-1088 (Stake #5112)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1089 (Stake #5113)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **11/03/2023**
 DATE COMPLETED: **11/03/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **205.5 Ft.**
 DATUM: **Survey**
 LOGGED BY: **VP**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
204.7	0			10 In. of Topsoil	- Infiltration rate = 0 in/hr at 4-1/2 Ft.
		ML		Dark yellow-brown (10YR 4/6), moist, SILT with sand [Silt Loam per USDA]	
	2				
	4				
200.5		SM		Red-brown (5YR 4/4), moist, Silty SAND with gravel [Sandy Loam per USDA]	
	6				
199.0		HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
	8				
197.5				Test pit complete at 8 Ft. due to refusal on highly-weathered rock.	
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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14 Worlds Fair Drive, Suite A
 Somerset, NJ 08873

LOG OF TEST PIT NO. TP-1089 (Stake #5113)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1090 (Stake #5114)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **11/03/2023**
 DATE COMPLETED: **11/03/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **205.0 Ft.**
 DATUM: **Survey**
 LOGGED BY: **VP**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
204.2	0			10 In. of Topsoil	- Infiltration rate = 0 in/hr at 2-1/2 Ft.
		ML		Dark yellow-brown (10YR 4/6), moist, SILT with sand [Silt Loam per USDA]	
	2				
		SM		Red-brown (5YR 4/4), moist, Silty SAND with gravel [Sandy Loam per USDA]	
202.0					- Infiltration rate = 0 in/hr at 2-1/2 Ft.
	4				
200.5		HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
	6				
198.5				Test pit complete at 6-1/2 Ft. due to refusal on highly-weathered rock.	
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



**GEO-TECHNOLOGY
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14 Worlds Fair Drive, Suite A
 Somerset, NJ 08873

LOG OF TEST PIT NO. TP-1090 (Stake #5114)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1091 (Stake #5115)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **11/03/2023**
 DATE COMPLETED: **11/03/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **204.4 Ft.**
 DATUM: **Survey**
 LOGGED BY: **VP**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
203.6	0			10 In. of Topsoil	- Infiltration rate = 0.5 in/hr at 3 Ft.
		ML		Dark yellow-brown (10YR 4/6), moist, SILT with sand [Silt Loam per USDA]	
201.4	2				
		SM		Red-brown (5YR 4/4), moist, Silty SAND with gravel [Sandy Loam per USDA]	
	4				
199.4		HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
	6				
197.4				Test pit complete at 7 Ft. due to refusal on highly-weathered rock.	
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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14 Worlds Fair Drive, Suite A
 Somerset, NJ 08873

LOG OF TEST PIT NO. TP-1091 (Stake #5115)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1092 (Stake #5089)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **10/25/2023**
 DATE COMPLETED: **10/25/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **196.5 Ft.**
 DATUM: **Survey**
 LOGGED BY: **VP**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
195.5	0			12 in. of Topsoil	- Infiltration rate = 1 in/hr at 1 Ft.
		ML		Dark yellow-brown (10YR 4/6), moist, Sandy SILT [Silt Loam per USDA]	
	2				
		GM		Red-brown (5YR 4/4), moist, Silty GRAVEL with sand [Gravelly Sand per USDA]	
193.5	4				
191.5	6	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
	8				
187.0	10			Test pit complete at 9-1/2 Ft. due to refusal on highly-weathered rock.	
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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LOG OF TEST PIT NO. TP-1092 (Stake #5089)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1093 (Stake #5090)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **10/25/2023**
 DATE COMPLETED: **10/25/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **196.9 Ft.**
 DATUM: **Survey**
 LOGGED BY: **VP**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
195.9	0			12 In. of Topsoil	- Infiltration rate = 0 in/hr at 3 Ft.
		ML		Dark yellow-brown (10YR 4/6), moist, Sandy SILT [Silt Loam per USDA]	
	2				
		GM		Red-brown (5YR 4/4), moist, Silty GRAVEL with sand [Gravelly Sand per USDA]	
193.9	4				- Infiltration rate = 0 in/hr at 3 Ft.
		HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
191.9	6				
189.4	8			Test pit complete at 7-1/2 Ft. due to refusal on highly-weathered rock.	
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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 14 Worlds Fair Drive, Suite A
 Somerset, NJ 08873

LOG OF TEST PIT NO. TP-1093 (Stake #5090)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1094 (Stake #5091)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **10/25/2023**
 DATE COMPLETED: **10/25/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **196.9 Ft.**
 DATUM: **Survey**
 LOGGED BY: **VP**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
196.1	0			10 In. of Topsoil	- Infiltration rate = 0 in/hr at 1 Ft. - NMC = 22.7%
		ML		Dark yellow-brown (10YR 4/6), moist, SILT [Silt per USDA]	
193.9	2				
		HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
190.9	4				
	6			Test pit complete at 6 Ft. due to refusal on highly-weathered rock.	
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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14 Worlds Fair Drive, Suite A
 Somerset, NJ 08873

LOG OF TEST PIT NO. TP-1094 (Stake #5091)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1095 (Stake #5092)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **10/25/2023**
 DATE COMPLETED: **10/25/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **194.6 Ft.**
 DATUM: **Survey**
 LOGGED BY: **VP**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
193.6	0			12 In. of Topsoil	- Infiltration rate = 0 in/hr at 1 Ft.
		ML		Dark yellow-brown (10YR 4/6), moist, Sandy SILT [Silt Loam per USDA]	
	2				
191.6		HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
189.6	4				
	6			Test pit complete at 5 Ft. due to refusal on highly-weathered rock.	
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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14 Worlds Fair Drive, Suite A
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LOG OF TEST PIT NO. TP-1095 (Stake #5092)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1096 (Stake #5093)

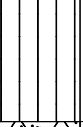
Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **10/25/2023**
 DATE COMPLETED: **10/25/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **195.2 Ft.**
 DATUM: **Survey**
 LOGGED BY: **VP**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
194.2	0			12 In. of Topsoil	- Infiltration rate = 0 in/hr at 1 Ft.
	2	ML		Dark yellow-brown (10YR 4/6), moist, Sandy SILT [Silt Loam per USDA]	
	4	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
189.7	6			Test pit complete at 5-1/2 Ft. due to refusal on highly-weathered rock.	
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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 14 Worlds Fair Drive, Suite A
 Somerset, NJ 08873

LOG OF TEST PIT NO. TP-1096 (Stake #5093)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1097 (Stake #5094)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **10/25/2023**
 DATE COMPLETED: **10/25/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **190.1 Ft.**
 DATUM: **Survey**
 LOGGED BY: **VP**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
189.3	0			10 In. of Topsoil	- Infiltration rate = 0 in/hr at 1 Ft.
		SM		Red-brown (5YR 4/4), moist, Silty SAND [Sandy Loam per USDA]	
187.1	2				- Basin Flood Test performed at 5 Ft.
		HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
	4				
184.1	6			Test pit complete at 6 Ft. due to refusal on highly-weathered rock.	
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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14 Worlds Fair Drive, Suite A
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LOG OF TEST PIT NO. TP-1097 (Stake #5094)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1098 (Stake #5095)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **10/25/2023**
 DATE COMPLETED: **10/25/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **189.9 Ft.**
 DATUM: **Survey**
 LOGGED BY: **VP**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
189.1	0			10 In. of Topsoil	- Infiltration rate = 0.25 in/hr at 1-1/2 Ft. - NMC = 19.4%
		ML		Red-brown (5YR 4/4), moist, SILT with sand [Silt Loam per USDA]	
186.4	2				
	4	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	- Basin Flood Test performed at 6 Ft.
	6				
182.9				Test pit complete at 7 Ft. due to refusal on highly-weathered rock.	
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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14 Worlds Fair Drive, Suite A
 Somerset, NJ 08873

LOG OF TEST PIT NO. TP-1098 (Stake #5095)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1099 (Stake #5096)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **10/25/2023**
 DATE COMPLETED: **10/25/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **189.5 Ft.**
 DATUM: **Survey**
 LOGGED BY: **VP**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
189.0	0			6 In. of Topsoil	- Infiltration rate = 0 in/hr at 1/2 Ft.
		ML		Red-brown (5YR 4/4), moist, Sandy SILT [Silt Loam per USDA]	
187.5	2	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	- Basin Flood Test performed at 4-1/2 Ft.
	4				
184.5				Test pit complete at 5 Ft. due to refusal on highly-weathered rock.	
	6				
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



GEO-TECHNOLOGY ASSOCIATES, INC.

14 Worlds Fair Drive, Suite A
 Somerset, NJ 08873

LOG OF TEST PIT NO. TP-1099 (Stake #5096)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1100 (Stake #5097)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **10/25/2023**
 DATE COMPLETED: **10/25/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **189.5 Ft.**
 DATUM: **Survey**
 LOGGED BY: **VP**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
189.0	0			6 In. of Topsoil	- Infiltration rate = 0.25 in/hr at 1/2 Ft.
188.5		SM		Red-brown (5YR 4/4), moist, Silty SAND with gravel [Sandy Loam per USDA]	
		HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
	2				
185.5	4			Test pit complete at 4 Ft. due to refusal on highly-weathered rock.	- Basin Flood Test performed at 4 Ft.
	6				
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



GEO-TECHNOLOGY ASSOCIATES, INC.

14 Worlds Fair Drive, Suite A
 Somerset, NJ 08873

LOG OF TEST PIT NO. TP-1100 (Stake #5097)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1101 (Stake #5098)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **10/25/2023**
 DATE COMPLETED: **10/25/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **191.6 Ft.**
 DATUM: **Survey**
 LOGGED BY: **VP**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
191.1	0			6 In. of Topsoil	- Infiltration rate = 0 in/hr at 1/2 Ft.
		ML		Brown (7.5YR 4/4), moist, Sandy SILT with gravel [Silt Loam per USDA]	
189.1	2				- Basin Flood Test performed at 4-1/2 Ft.
		HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
	4				
186.1	6			Test pit complete at 5-1/2 Ft. due to refusal on highly-weathered rock.	
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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14 Worlds Fair Drive, Suite A
 Somerset, NJ 08873

LOG OF TEST PIT NO. TP-1101 (Stake #5098)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1102 (Stake #5099)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **10/25/2023**
 DATE COMPLETED: **10/25/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **192.3 Ft.**
 DATUM: **Survey**
 LOGGED BY: **VP**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
191.3	0			12 In. of Topsoil	
	2	ML		Dark yellow-brown (10YR 4/6), moist, SILT with sand and gravel [Silt Loam per USDA]	
187.3	4				- Infiltration rate = 0 in/hr at 3 Ft. - Moderate trapped water seepage at 6 Ft. - Basin Flood Test attempted at 6 Ft. Terminated due to water seepage.
	6	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
183.8	8				
	10			Test pit complete at 8-1/2 Ft. due to refusal on highly-weathered rock.	
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



GEO-TECHNOLOGY ASSOCIATES, INC.

14 Worlds Fair Drive, Suite A
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LOG OF TEST PIT NO. TP-1102 (Stake #5099)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1103 (Stake #5100)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **11/10/2023**
 DATE COMPLETED: **11/10/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **195.2 Ft.**
 DATUM: **Survey**
 LOGGED BY: **AFS**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
194.2	0			12 in. of Topsoil	- Infiltration rate = 0 in/hr at 1 Ft.
		ML		Brown (7.5YR 4/4), moist, Sandy SILT with gravel [Silt Loam per USDA]	
	2				
		GM		Red-brown (5YR 4/4), moist, Silty GRAVEL [Gravelly Sand per USDA]	
192.2		HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
191.7	4				
189.2	6			Test pit complete at 6 Ft. due to refusal on highly-weathered rock.	
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



GEO-TECHNOLOGY ASSOCIATES, INC.

14 Worlds Fair Drive, Suite A
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LOG OF TEST PIT NO. TP-1103 (Stake #5100)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1104 (Stake #5101)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **11/10/2023**
 DATE COMPLETED: **11/10/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **196.2 Ft.**
 DATUM: **Survey**
 LOGGED BY: **AFS**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
195.2	0			12 in. of Topsoil	- NMC = 23.7% - Infiltration rate = 0 in/hr at 2 Ft.
		CL		Brown (7.5YR 4/4), moist, Lean CLAY with sand [Clay per USDA]	
	2				
		GM		Red-brown (5YR 4/4), moist, Silty GRAVEL [Gravelly Sand per USDA]	
193.2					
192.2	4	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
	6				
188.2	8			Test pit complete at 8 Ft. due to refusal on highly-weathered rock.	
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



GEO-TECHNOLOGY ASSOCIATES, INC.

14 Worlds Fair Drive, Suite A
 Somerset, NJ 08873

LOG OF TEST PIT NO. TP-1104 (Stake #5101)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1105 (Stake #5102)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **11/10/2023**
 DATE COMPLETED: **11/10/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **198.3 Ft.**
 DATUM: **Survey**
 LOGGED BY: **AFS**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
197.3	0			12 In. of Topsoil	- Infiltration rate = 1 in/hr at 2 Ft.
		ML		Brown (7.5YR 4/4), moist, SILT with sand and gravel [Silt Loam per USDA]	
	2				
		GM		Red-brown (5YR 4/4), moist, Silty GRAVEL [Gravelly Sand per USDA]	
195.3					
194.3	4	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
	6				
191.3				Test pit complete at 7 Ft. due to refusal on highly-weathered rock.	
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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14 Worlds Fair Drive, Suite A
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LOG OF TEST PIT NO. TP-1105 (Stake #5102)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1106 (Stake #5103)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **11/10/2023**
 DATE COMPLETED: **11/10/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **199.1 Ft.**
 DATUM: **Survey**
 LOGGED BY: **AFS**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
198.1	0			12 in. of Topsoil	- Infiltration rate = 0 in/hr at 2 Ft.
		ML		Brown (7.5YR 4/6), moist, Sandy SILT [Silt Loam per USDA]	
	2				
		GM		Red-brown (5YR 4/4), moist, Silty GRAVEL [Gravelly Sand per USDA]	
196.1					
195.1	4	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
	6				
192.1				Test pit complete at 7 Ft. due to refusal on highly-weathered rock.	
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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LOG OF TEST PIT NO. TP-1106 (Stake #5103)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1107 (Stake #5104)

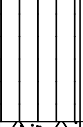
Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **11/13/2023**
 DATE COMPLETED: **11/13/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **200.6 Ft.**
 DATUM: **Survey**
 LOGGED BY: **AFS**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
199.6	0			12 In. of Topsoil	- Infiltration rate = 1.5 in/hr at 1 Ft.
	2	ML		Brown (7.5YR 5/3), moist, Sandy SILT [Silt Loam per USDA]	
	4	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
195.6	5			Test pit complete at 5 Ft. due to refusal on highly-weathered rock.	
	6				
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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LOG OF TEST PIT NO. TP-1107 (Stake #5104)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1108 (Stake #5105)

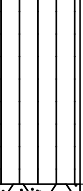
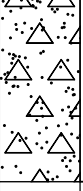
Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **11/13/2023**
 DATE COMPLETED: **11/13/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **201.7 Ft.**
 DATUM: **Survey**
 LOGGED BY: **AFS**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
200.7	0			12 In. of Topsoil	- Infiltration rate = 1 in/hr at 2 Ft.
	2	ML		Brown (7.5YR 4/6), moist, Sandy SILT [Silt Loam per USDA]	
197.7	4	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
194.7	6			Test pit complete at 7 Ft. due to refusal on highly-weathered rock.	
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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 14 Worlds Fair Drive, Suite A
 Somerset, NJ 08873

LOG OF TEST PIT NO. TP-1108 (Stake #5105)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1109 (Stake #5125)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **11/13/2023**
 DATE COMPLETED: **11/13/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **211.5 Ft.**
 DATUM: **Survey**
 LOGGED BY: **AFS**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
210.5	0			12 In. of Topsoil	- Infiltration rate = 0.5 in/hr at 2 Ft.
	2	SM		Red-brown (5YR 5/4), moist, Silty SAND with gravel [Sandy Loam per USDA]	
207.5	4	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
205.5	6			Test pit complete at 6 Ft. due to refusal on highly-weathered rock.	
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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LOG OF TEST PIT NO. TP-1109 (Stake #5125)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1110 (Stake #5124)

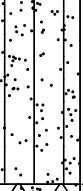
Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **11/13/2023**
 DATE COMPLETED: **11/13/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **207.1 Ft.**
 DATUM: **Survey**
 LOGGED BY: **AFS**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
206.1	0			12 In. of Topsoil	- Infiltration rate = 0 in/hr at 2 Ft.
	2	SM		Red-brown (5YR 4/4), moist, Silty SAND with gravel [Sandy Loam per USDA]	
203.1	4	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
201.1	6			Test pit complete at 6 Ft. due to refusal on highly-weathered rock.	
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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LOG OF TEST PIT NO. TP-1110 (Stake #5124)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1111 (Stake #5123)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **11/15/2023**
 DATE COMPLETED: **11/15/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **187.6 Ft.**
 DATUM: **Survey**
 LOGGED BY: **VP**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
187.1	0			6 In. of Topsoil	- Infiltration test attempted at 9 In.
186.6		GM		Dark yellow-brown (10YR 4/6), moist, Silty GRAVEL with sand [Gravelly Sand per USDA]	
		HW		Very dark gray (5YR 3/1), moist, Highly-weathered ROCK (Shale)	
	2				
	4				
181.6	6			Test pit complete at 6 Ft. due to refusal on highly-weathered rock.	
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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LOG OF TEST PIT NO. TP-1111 (Stake #5123)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1112 (Stake #5122)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **11/15/2023**
 DATE COMPLETED: **11/15/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **185.2 Ft.**
 DATUM: **Survey**
 LOGGED BY: **VP**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
184.2	0			12 In. of Topsoil	- Infiltration rate = 0 in/hr at 1 Ft.
	2	GM		Brown (7.5YR 4/4), moist, Silty GRAVEL with sand [Gravelly Sand per USDA]	
	4	HW		Very dark gray (5YR 3/1), moist, Highly-weathered ROCK (Shale)	
179.2	6			Test pit complete at 6 Ft. due to refusal on highly-weathered rock.	
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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LOG OF TEST PIT NO. TP-1112 (Stake #5122)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1113 (Stake #5035)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **10/30/2023**
 DATE COMPLETED: **10/30/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **182.4 Ft.**
 DATUM: **Survey**
 LOGGED BY: **VP**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
181.6	0			10 In. of Topsoil	- Infiltration rate = 0 in/hr at 1 Ft.
		GM		Dark yellow-brown (10YR 4/6), moist, Silty GRAVEL with sand [Gravelly Sand per USDA]	
179.4	2				- Basin Flood Test performed at 5 Ft.
		HW		Red-brown (5YR 4/4) to very dark gray (5YR 3/1), moist, Highly-weathered ROCK (Shale)	
	4				
	6				
175.9				Test pit complete at 6-1/2 Ft. due to refusal on highly-weathered rock.	
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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LOG OF TEST PIT NO. TP-1113 (Stake #5035)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1114 (Stake #5034)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **10/30/2023**
 DATE COMPLETED: **10/30/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **187.2 Ft.**
 DATUM: **Survey**
 LOGGED BY: **VP**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
186.2	0			12 In. of Topsoil	- Infiltration rate = 0 in/hr at 1 Ft.
	2	GM		Yellow-brown (10YR 5/6), moist, Silty GRAVEL with sand [Gravelly Sand per USDA]	
184.2	4	HW		Red-brown (5YR 4/4) to very dark gray (5YR 3/1), moist, Highly-weathered ROCK (Shale)	
181.2	6			Test pit complete at 6 Ft. due to refusal on highly-weathered rock.	- Basin Flood Test performed at 5 Ft.
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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LOG OF TEST PIT NO. TP-1114 (Stake #5034)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1115 (Stake #5049)

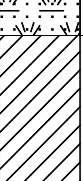
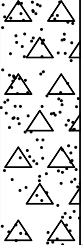
Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **11/7/2023**
 DATE COMPLETED: **11/7/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **200.4 Ft.**
 DATUM: **Survey**
 LOGGED BY: **AFS**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
199.8	0			8 In. of Topsoil	
		CL		Red-brown (5YR 4/4), moist, Sandy Lean CLAY [Clay per USDA]	
197.4	2				- Infiltration rate = 0 in/hr at 1 Ft.
		HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
193.4	6				- Basin Flood Test performed at 7 Ft.
				Test pit complete at 7 Ft. due to refusal on highly-weathered rock.	
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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14 Worlds Fair Drive, Suite A
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LOG OF TEST PIT NO. TP-1115 (Stake #5049)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1116 (Stake #5048)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **11/7/2023**
 DATE COMPLETED: **11/7/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **195.7 Ft.**
 DATUM: **Survey**
 LOGGED BY: **AFS**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
194.9	0			10 In. of Topsoil	
	2	SM		Dark yellow-brown (10YR 3/4), moist, Silty SAND with gravel [Sandy Loam per USDA]	
192.2	4	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	- Infiltration rate = 0 in/hr at 1-1/2 Ft.
188.7	8			Test pit complete at 7 Ft. due to refusal on highly-weathered rock.	
	10				- Basin Flood Test performed at 7 Ft.
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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 14 Worlds Fair Drive, Suite A
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LOG OF TEST PIT NO. TP-1116 (Stake #5048)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1117 (Stake #5047)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **11/7/2023**
 DATE COMPLETED: **11/7/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **192.3 Ft.**
 DATUM: **Survey**
 LOGGED BY: **AFS**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
191.5	0			10 In. of Topsoil	- Infiltration rate = 0.5 in/hr at 1 Ft.
		SM		Dark yellow-brown (10YR 3/4), moist, Silty SAND with gravel [Sandy Loam per USDA]	
189.8	2	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	- Basin Flood Test performed at 5 Ft.
	4				
	6				
184.3	8			Test pit complete at 8 Ft. due to refusal on highly-weathered rock.	
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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14 Worlds Fair Drive, Suite A
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LOG OF TEST PIT NO. TP-1117 (Stake #5047)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1118 (Stake #5046)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **11/7/2023**
 DATE COMPLETED: **11/7/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **187.0 Ft.**
 DATUM: **Survey**
 LOGGED BY: **AFS**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
186.4	0			8 In. of Topsoil	
		SM		Dark yellow-brown (10YR 3/4), moist, Silty SAND [Sandy Loam per USDA]	
183.0	2				- Infiltration rate = 0.5 in/hr at 2 Ft.
	4	HW		Red-brown (5YR 4/4) and gray (7.5YR 5/1), moist, Highly-weathered ROCK (Shale)	
179.0	6				- Basin Flood Test performed at 6 Ft.
	8			Test pit complete at 8 Ft. due to refusal on highly-weathered rock.	
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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LOG OF TEST PIT NO. TP-1118 (Stake #5046)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1119 (Stake #5045)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **11/7/2023**
 DATE COMPLETED: **11/7/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **182.3 Ft.**
 DATUM: **Survey**
 LOGGED BY: **AFS**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
181.7	0			8 In. of Topsoil	- Infiltration rate = 6 in/hr at 1 Ft. - NMC = 16.4%
	2	ML		Dark yellow-brown (10YR 3/4), moist, Gravelly SILT with sand [Gravelly Silt Loam per USDA]	
179.3	4	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	- Basin Flood Test performed at 5 Ft.
174.3	8			Test pit complete at 8 Ft. due to refusal on highly-weathered rock.	
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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14 Worlds Fair Drive, Suite A
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LOG OF TEST PIT NO. TP-1119 (Stake #5045)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1120 (Stake #5044)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **11/7/2023**
 DATE COMPLETED: **11/7/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **195.6 Ft.**
 DATUM: **Survey**
 LOGGED BY: **AFS**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
194.8	0			10 In. of Topsoil	- Infiltration rate = 6 in/hr at 1 Ft.
		GM		Brown (7.5YR 4/4), moist, Silty GRAVEL with sand [Gravelly Sand per USDA]	
193.1	2	HW		Red-brown (5YR 4/4) and gray (7.5YR 5/1), moist, Highly-weathered ROCK (Shale)	- Basin Flood Test performed at 5 Ft.
	4				
	6				
188.6	7			Test pit complete at 7 Ft. due to refusal on highly-weathered rock.	
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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14 Worlds Fair Drive, Suite A
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LOG OF TEST PIT NO. TP-1120 (Stake #5044)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1121 (Stake #5036)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **10/31/2023**
 DATE COMPLETED: **10/31/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **180.7 Ft.**
 DATUM: **Survey**
 LOGGED BY: **VP**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
179.9	0			10 In. of Topsoil	- NMC = 15.2% - Infiltration rate = 0 in/hr at 2-1/2 Ft.
		ML		Dark yellow-brown (10YR 4/6), moist, SILT [Silt per USDA]	
176.2	2			Red-brown (5YR 4/4) to very dark gray (5YR 3/1), moist, Highly-weathered ROCK (Shale)	
173.7	6			Test pit complete at 7 Ft. due to refusal on highly-weathered rock.	- Basin Flood Test performed at 6-1/2 Ft.
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
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14 Worlds Fair Drive, Suite A
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LOG OF TEST PIT NO. TP-1121 (Stake #5036)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1122 (Stake #5037)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **10/31/2023**
 DATE COMPLETED: **10/31/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **182.6 Ft.**
 DATUM: **Survey**
 LOGGED BY: **VP**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
181.8	0			10 In. of Topsoil	- Infiltration rate = 0 in/hr at 1 Ft.
		GM		Brown (7.5YR 4/4), moist, Silty GRAVEL with sand [Gravelly Sand per USDA]	
180.1	2	HW		Red-brown (5YR 4/4) to very dark gray (5YR 3/1), moist, Highly-weathered ROCK (Shale)	- Basin Flood Test performed at 4-1/2 Ft.
	4				
177.1	6			Test pit complete at 5-1/2 Ft. due to refusal on highly-weathered rock.	
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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14 Worlds Fair Drive, Suite A
 Somerset, NJ 08873

LOG OF TEST PIT NO. TP-1122 (Stake #5037)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1123 (Stake #5038)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **10/31/2023**
 DATE COMPLETED: **10/31/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **184.4 Ft.**
 DATUM: **Survey**
 LOGGED BY: **VP**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
183.6	0			10 In. of Topsoil	
		GM		Dark yellow-brown (10YR 4/6), moist, Silty GRAVEL with sand [Gravelly Sand per USDA]	
181.9	2	HW		Red-brown (5YR 4/4) to very dark gray (5YR 3/1), moist, Highly-weathered ROCK (Shale)	- Infiltration rate = 0.25 in/hr at 1 Ft. - Basin Flood Test performed at 4-1/2 Ft.
178.9	4				
	6			Test pit complete at 5-1/2 Ft. due to refusal on highly-weathered rock.	
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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14 Worlds Fair Drive, Suite A
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LOG OF TEST PIT NO. TP-1123 (Stake #5038)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1124 (Stake #5039)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **10/31/2023**
 DATE COMPLETED: **10/31/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **187.8 Ft.**
 DATUM: **Survey**
 LOGGED BY: **VP**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
187.0	0			10 In. of Topsoil	- Infiltration rate = 0 in/hr at 1 Ft.
		GM		Brown (7.5YR 4/4), moist, Silty GRAVEL with sand [Gravelly Sand per USDA]	
184.8	2				
		HW		Red-brown (5YR 4/4) to very dark gray (5YR 3/1), moist, Highly-weathered ROCK (Shale)	
182.3	4				
				Test pit complete at 5-1/2 Ft. due to refusal on highly-weathered rock.	- Basin Flood Test performed at 5 Ft.
	6				
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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14 Worlds Fair Drive, Suite A
 Somerset, NJ 08873

LOG OF TEST PIT NO. TP-1124 (Stake #5039)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1125 (Stake #5040)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **10/31/2023**
 DATE COMPLETED: **10/31/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **189.0 Ft.**
 DATUM: **Survey**
 LOGGED BY: **VP**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
188.2	0			10 In. of Topsoil	- Infiltration test attempted at 1 Ft.
		GM		Brown (7.5YR 4/4), moist, Silty GRAVEL with sand [Gravelly Sand per USDA]	
186.0	2				
	4	HW		Red-brown (5YR 4/4) to very dark gray (5YR 3/1), moist, Highly-weathered ROCK (Shale)	- Basin Flood Test performed at 5 Ft.
	6				
182.0	7			Test pit complete at 7 Ft. due to refusal on highly-weathered rock.	
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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14 Worlds Fair Drive, Suite A
 Somerset, NJ 08873

LOG OF TEST PIT NO. TP-1125 (Stake #5040)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1126 (Stake #5041)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **10/31/2023**
 DATE COMPLETED: **10/31/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **190.7 Ft.**
 DATUM: **Survey**
 LOGGED BY: **VP**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
189.9	0			10 In. of Topsoil	
		SM		Red-brown (5YR 4/4), moist, Silty SAND with gravel [Sandy Loam per USDA]	
	2				
185.7	4				- Infiltration rate = 0.25 in/hr at 3 Ft.
	6	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
183.7	8			Test pit complete at 7 Ft. due to refusal on highly-weathered rock.	- Basin Flood Test performed at 7 Ft.
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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 14 Worlds Fair Drive, Suite A
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LOG OF TEST PIT NO. TP-1126 (Stake #5041)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1127 (Stake #5042)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **10/31/2023**
 DATE COMPLETED: **10/31/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **199.2 Ft.**
 DATUM: **Survey**
 LOGGED BY: **VP**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
198.5	0			8 In. of Topsoil	- Infiltration rate = 0 in/hr at 2 Ft. - NMC = 14.5%
		ML		Red-brown (5YR 4/4), moist, Sandy SILT with gravel [Silt Loam per USDA]	
196.2	2	GM		Red-brown (5YR 4/4), moist, Silty GRAVEL with sand [Gravelly Sand per USDA]	
195.2	4	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
193.2	6			Test pit complete at 6 Ft. due to refusal on highly-weathered rock.	- Basin Flood Test performed at 6 Ft.
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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LOG OF TEST PIT NO. TP-1127 (Stake #5042)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1128 (Stake #5043)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **10/31/2023**
 DATE COMPLETED: **10/31/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **193.5 Ft.**
 DATUM: **Survey**
 LOGGED BY: **VP**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
192.7	0			10 In. of Topsoil	- Infiltration rate = 0 in/hr at 2 Ft.
		SM		Red-brown (5YR 4/4), moist, Silty SAND with gravel [Sandy Loam per USDA]	
	2				
		GM		Red-brown (5YR 4/4), moist, Silty GRAVEL with sand [Gravelly Sand per USDA]	
190.5					- Basin Flood Test performed at 6 Ft.
189.5	4	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
187.5	6			Test pit complete at 6 Ft. due to refusal on highly-weathered rock.	
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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14 Worlds Fair Drive, Suite A
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LOG OF TEST PIT NO. TP-1128 (Stake #5043)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1129 (Stake #5139)

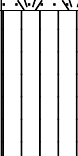
Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **11/9/2023**
 DATE COMPLETED: **11/9/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **209.0 Ft.**
 DATUM: **Survey**
 LOGGED BY: **AFS**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
208.4	0			8 In. of Topsoil	- Infiltration rate = 0.25 in/hr at 1 Ft.
		ML		Red-brown (5YR 4/4), moist, SILT with sand [Silt Loam per USDA]	
206.0	2	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
	4				
	6				
	8				
201.0	8			Test pit complete at 8 Ft. due to refusal on highly-weathered rock.	
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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 14 Worlds Fair Drive, Suite A
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LOG OF TEST PIT NO. TP-1129 (Stake #5139)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1130 (Stake #5138)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **11/9/2023**
 DATE COMPLETED: **11/9/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **207.4 Ft.**
 DATUM: **Survey**
 LOGGED BY: **AFS**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
206.8	0			8 In. of Topsoil	- Infiltration rate = 0.25 in/hr at 2 Ft.
		ML		Brown (7.5YR 4/6), moist, Sandy SILT with gravel [Silt Loam per USDA]	
203.4	2				
	4	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
	6				
197.4	8				
	10			Test pit complete at 10 Ft. due to refusal on highly-weathered rock.	
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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14 Worlds Fair Drive, Suite A
 Somerset, NJ 08873

LOG OF TEST PIT NO. TP-1130 (Stake #5138)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1131

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **11/13/2023**
 DATE COMPLETED: **11/13/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **212 Ft.**
 DATUM: **TOPO**
 LOGGED BY: **AFS**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
211.2	0			10 In. of Topsoil	- Infiltration rate = 12 in/hr at 1 Ft.
		GM		Red-brown (5YR 4/4), moist, Silty GRAVEL with sand [Gravelly Sand per USDA]	
	2				
209.0	4	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
206.0	6			Test pit complete at 6 Ft. due to refusal on highly-weathered rock.	
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation are approximate.**
Backfilled on completion.



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14 Worlds Fair Drive, Suite A
 Somerset, NJ 08873

LOG OF TEST PIT NO. TP-1131

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1132

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **11/13/2023**
 DATE COMPLETED: **11/13/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **210 Ft.**
 DATUM: **TOPO**
 LOGGED BY: **AFS**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
209.2	0			10 In. of Topsoil	- Infiltration rate = 0.5 in/hr at 2 Ft.
		ML		Dark brown (7.5YR 3/4), moist, Sandy SILT [Silt Loam per USDA]	
	2			- with gravel at 3 Ft.	
206.0	4	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
204.0	6			Test pit complete at 6 Ft. due to refusal on highly-weathered rock.	
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation are approximate.**
Backfilled on completion.



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14 Worlds Fair Drive, Suite A
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LOG OF TEST PIT NO. TP-1132

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1133 (Stake #5130)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **11/9/2023**
 DATE COMPLETED: **11/9/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **212.5 Ft.**
 DATUM: **Survey**
 LOGGED BY: **AFS**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
211.7	0			10 In. of Topsoil	- Infiltration rate = 0.5 in/hr at 2 Ft.
		ML		Brown (7.5YR 4/6), moist, Sandy SILT [Silt Loam per USDA]	
208.5	4	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
206.5	6			Test pit complete at 6 Ft. due to refusal on highly-weathered rock.	
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



GEO-TECHNOLOGY ASSOCIATES, INC.
 14 Worlds Fair Drive, Suite A
 Somerset, NJ 08873

LOG OF TEST PIT NO. TP-1133 (Stake #5130)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1134 (Stake #5131)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **11/9/2023**
 DATE COMPLETED: **11/9/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **213.9 Ft.**
 DATUM: **Survey**
 LOGGED BY: **AFS**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
213.3	0			8 In. of Topsoil	- Infiltration rate = 0 in/hr at 2-1/2 Ft.
		ML		Red-brown (5YR 4/4), moist, Sandy SILT with gravel [Silt Loam per USDA]	
209.4	4				
		HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
207.4	6			Test pit complete at 6-1/2 Ft. due to refusal on highly-weathered rock.	
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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14 Worlds Fair Drive, Suite A
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LOG OF TEST PIT NO. TP-1134 (Stake #5131)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1135 (Stake #5132)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **11/9/2023**
 DATE COMPLETED: **11/9/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **214.4 Ft.**
 DATUM: **Survey**
 LOGGED BY: **AFS**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
213.8	0			8 In. of Topsoil	- Offset 3 Ft. to the west and continued at TP-1135A.
				FILL - Red-brown (5YR 4/4), moist, sandy silt with bricks [Silt Loam per USDA]	
211.4	2			- with an abandoned metal pipe (possibly water line) at 2-1/2 Ft.	
				Test pit terminated at 3 Ft. due to existing utility.	
	4				
	6				
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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LOG OF TEST PIT NO. TP-1135 (Stake #5132)

Sheet 1 of 1

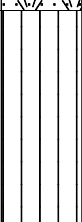
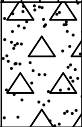
LOG OF TEST PIT NO. TP-1135A (Stake #5132) Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **11/9/2023**
 DATE COMPLETED: **11/9/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **214.4 Ft.**
 DATUM: **Survey**
 LOGGED BY: **AFS**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
213.8	0			8 In. of Topsoil	- Infiltration rate = 0.5 in/hr at 2 Ft. - NMC = 22.2%
		ML		Red-brown (5YR 4/4), moist, SILT [Silt per USDA]	
	2			- with gravel at 2-1/2 Ft.	
210.4	4	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
208.4	6			Test pit complete at 6 Ft. due to refusal on highly-weathered rock.	
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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 14 Worlds Fair Drive, Suite A
 Somerset, NJ 08873

LOG OF TEST PIT NO. TP-1135A (Stake #5132)

LOG OF TEST PIT NO. TP-1136 (Stake #5133)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **11/9/2023**
 DATE COMPLETED: **11/9/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **214.6 Ft.**
 DATUM: **Survey**
 LOGGED BY: **AFS**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
214.1	0			6 In. of Topsoil	- Infiltration rate = 0.5 in/hr at 2 Ft.
				FILL - Red-brown (5YR 4/4), moist, sandy silt with gravel [Silt Loam per USDA]	
				- with concrete fragments at 1 Ft.	
	2			- with plastic and scrap metal at 2 Ft.	
210.6	4	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
208.6	6			Test pit complete at 6 Ft. due to refusal on highly-weathered rock.	
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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LOG OF TEST PIT NO. TP-1136 (Stake #5133)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1137 (Stake #5134)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **11/9/2023**
 DATE COMPLETED: **11/9/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **213.7 Ft.**
 DATUM: **Survey**
 LOGGED BY: **AFS**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
213.1	0			8 In. of Topsoil	- Infiltration rate = 0.25 in/hr at 2 Ft.
		SM		Red-brown (5YR 4/4), moist, Silty SAND with gravel [Sandy Loam per USDA]	
209.7	4	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
207.2	6			Test pit complete at 6-1/2 Ft. due to refusal on highly-weathered rock.	
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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14 Worlds Fair Drive, Suite A
 Somerset, NJ 08873

LOG OF TEST PIT NO. TP-1137 (Stake #5134)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1138 (Stake #5135)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **11/9/2023**
 DATE COMPLETED: **11/9/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **211.9 Ft.**
 DATUM: **Survey**
 LOGGED BY: **AFS**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
211.3	0			8 In. of Topsoil	- Infiltration rate = 9 in/hr at 1-1/2 Ft.
		GM		Red-brown (5YR 4/4), moist, Silty GRAVEL with sand [Gravelly Sand per USDA]	
	2				
208.4	4	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
	6				
204.9				Test pit complete at 7 Ft. due to refusal on highly-weathered rock.	
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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14 Worlds Fair Drive, Suite A
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LOG OF TEST PIT NO. TP-1138 (Stake #5135)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1139 (Stake #5126)

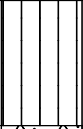
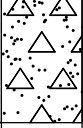
Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **11/10/2023**
 DATE COMPLETED: **11/10/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **206.8 Ft.**
 DATUM: **Survey**
 LOGGED BY: **AFS**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
205.8	0			12 In. of Topsoil	- Infiltration rate = 0 in/hr at 1 Ft.
	2	ML		Red-brown (5YR 4/4), moist, Sandy SILT with gravel [Silt Loam per USDA]	
	4	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
	5			Test pit complete at 5 Ft. due to refusal on highly-weathered rock.	
	6				
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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14 Worlds Fair Drive, Suite A
 Somerset, NJ 08873

LOG OF TEST PIT NO. TP-1139 (Stake #5126)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1140 (Stake #5127)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **11/10/2023**
 DATE COMPLETED: **11/10/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **205.1 Ft.**
 DATUM: **Survey**
 LOGGED BY: **AFS**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
204.5	0			8 In. of Topsoil	- Infiltration rate = 0.5 in/hr at 1 Ft.
		ML		Red-brown (5YR 4/4), moist, Sandy SILT with gravel [Silt Loam per USDA]	
203.1	2	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
201.1	4			Test pit complete at 4 Ft. due to refusal on highly-weathered rock.	
	6				
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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LOG OF TEST PIT NO. TP-1140 (Stake #5127)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1141 (Stake #5129)

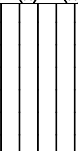
Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **11/10/2023**
 DATE COMPLETED: **11/10/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **201.6 Ft.**
 DATUM: **Survey**
 LOGGED BY: **AFS**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
201.0	0			8 In. of Topsoil	- Infiltration rate = 0 in/hr at 1 Ft.
		ML		Red-brown (5YR 4/4), moist, Sandy SILT with gravel [Silt Loam per USDA]	
198.6	2	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
	4				
196.6					
	6			Test pit complete at 5 Ft. due to refusal on highly-weathered rock.	
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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14 Worlds Fair Drive, Suite A
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LOG OF TEST PIT NO. TP-1141 (Stake #5129)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1142 (Stake #5128)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **11/10/2023**
 DATE COMPLETED: **11/10/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **200.0 Ft.**
 DATUM: **Survey**
 LOGGED BY: **AFS**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
199.4	0			8 In. of Topsoil	- Infiltration rate = 0.5 in/hr at 2 Ft.
		ML		Red-brown (5YR 4/4), moist, Sandy SILT with gravel [Silt Loam per USDA]	
196.0	4	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
195.0				Test pit complete at 5 Ft. due to refusal on highly-weathered rock.	
	6				
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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LOG OF TEST PIT NO. TP-1142 (Stake #5128)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1143 (Stake #5142)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **11/8/2023**
 DATE COMPLETED: **11/8/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **213.3 Ft.**
 DATUM: **Survey**
 LOGGED BY: **AFS**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
212.5	0			10 In. of Topsoil	- Infiltration rate = 0 in/hr at 2 Ft.
		ML		Red-brown (5YR 4/4), moist, Sandy SILT [Silt Loam per USDA]	
	2			- with gravel at 3 Ft.	
209.3	4	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
	6				
205.3	8			Test pit complete at 8 Ft. due to refusal on highly-weathered rock.	
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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LOG OF TEST PIT NO. TP-1143 (Stake #5142)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1144 (Stake #5141)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **11/8/2023**
 DATE COMPLETED: **11/8/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **213.4 Ft.**
 DATUM: **Survey**
 LOGGED BY: **AFS**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
212.6	0			10 In. of Topsoil	- Infiltration rate = 0 in/hr at 1-1/2 Ft.
		ML		Brown (7.5YR 4/4), moist, Sandy SILT [Silt Loam per USDA]	
	2			- with gravel at 3 Ft.	
209.9	4	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
206.4	6			Test pit complete at 7 Ft. due to refusal on highly-weathered rock.	
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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LOG OF TEST PIT NO. TP-1144 (Stake #5141)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1145 (Stake #5140)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **11/8/2023**
 DATE COMPLETED: **11/8/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **213.2 Ft.**
 DATUM: **Survey**
 LOGGED BY: **AFS**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
212.4	0			10 In. of Topsoil	- Infiltration rate = 0 in/hr at 2 Ft.
		CL		Red-brown (5YR 4/4), moist, Sandy Lean CLAY [Clay per USDA]	
	2			- with gravel at 3 Ft.	
209.2	4	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
206.7	6			Test pit complete at 6-1/2 Ft. due to refusal on highly-weathered rock.	
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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LOG OF TEST PIT NO. TP-1145 (Stake #5140)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1146 (Stake #5144)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **11/8/2023**
 DATE COMPLETED: **11/8/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **207.1 Ft.**
 DATUM: **Survey**
 LOGGED BY: **AFS**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
206.3	0			10 In. of Topsoil	- Infiltration rate = 0 in/hr at 1-1/2 Ft.
	2	ML		Dark yellow-brown (10YR 4/6), moist, SILT with sand [Silt Loam per USDA]	
203.1	4	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
200.1	6			Test pit complete at 7 Ft. due to refusal on highly-weathered rock.	
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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LOG OF TEST PIT NO. TP-1146 (Stake #5144)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1147 (Stake #5143)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **11/8/2023**
 DATE COMPLETED: **11/8/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **207.1 Ft.**
 DATUM: **Survey**
 LOGGED BY: **AFS**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
206.3	0			10 In. of Topsoil	- Infiltration rate = 0.5 in/hr at 2 Ft.
		SM		Dark yellow-brown (10YR 4/6), moist, Silty SAND [Sandy Loam per USDA]	
204.1	2				
		ML		Dark yellow-brown (10YR 3/4), moist, SILT with sand and gravel [Silt Loam per USDA]	
203.1	4				
		HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
	6				
199.1	8			Test pit complete at 8 Ft. due to refusal on highly-weathered rock.	
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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14 Worlds Fair Drive, Suite A
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LOG OF TEST PIT NO. TP-1147 (Stake #5143)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1148 (Stake #5054)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **11/6/2023**
 DATE COMPLETED: **11/6/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **202.3 Ft.**
 DATUM: **Survey**
 LOGGED BY: **AFS**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
201.3 200.8 200.3	0			12 In. of Topsoil	- Infiltration rate = 0.5 in/hr at 1 Ft.
		ML		Red-brown (5YR 4/4), moist, SILT with sand and gravel [Silt Loam per USDA]	
		GM		Red-brown (5YR 4/4), moist, Silty GRAVEL with sand [Gravelly Sand per USDA]	
	2	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
198.3	4			Test pit complete at 4 Ft. due to refusal on highly-weathered rock.	- Basin Flood Test performed at 4 Ft.
	6				
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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14 Worlds Fair Drive, Suite A
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LOG OF TEST PIT NO. TP-1148 (Stake #5054)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1149 (Stake #5053)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **11/6/2023**
 DATE COMPLETED: **11/6/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **202.8 Ft.**
 DATUM: **Survey**
 LOGGED BY: **AFS**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
201.8 199.8 199.3	0			12 In. of Topsoil	- Infiltration rate = 0.5 in/hr at 1-1/2 Ft. - NMC = 23.0% - Basin Flood Test performed at 5 Ft.
	2	ML		Red-brown (5YR 4/4), moist, Sandy SILT [Silt Loam per USDA]	
	4	GM		Red-brown (5YR 4/4), moist, Silty GRAVEL with sand [Gravelly Sand per USDA]	
	4	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
195.8	7			Test pit complete at 7 Ft. due to refusal on highly-weathered rock.	
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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LOG OF TEST PIT NO. TP-1149 (Stake #5053)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1150 (Stake #5052)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **11/6/2023**
 DATE COMPLETED: **11/6/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **200.2 Ft.**
 DATUM: **Survey**
 LOGGED BY: **AFS**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
199.2 197.7 196.7	0			12 In. of Topsoil	- Infiltration rate = 0 in/hr at 1-1/2 Ft. - Basin Flood Test performed at 5 Ft.
	2	ML		Red-brown (5YR 4/4), moist, SILT with sand [Silt Loam per USDA]	
	4	GM		Red-brown (5YR 4/4), moist, Silty GRAVEL with sand [Gravelly Sand per USDA]	
	6	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
193.2	7			Test pit complete at 7 Ft. due to refusal on highly-weathered rock.	- Moderate water seepage at 7 Ft.
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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14 Worlds Fair Drive, Suite A
 Somerset, NJ 08873

LOG OF TEST PIT NO. TP-1150 (Stake #5052)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1151 (Stake #5051)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **11/6/2023**
 DATE COMPLETED: **11/6/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **197.6 Ft.**
 DATUM: **Survey**
 LOGGED BY: **AFS**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
196.8	0			10 In. of Topsoil	- Infiltration rate = 0 in/hr at 1 Ft.
		ML		Red-brown (5YR 4/4), moist, SILT with sand [Silt Loam per USDA]	
	2			- with gravel at 2 Ft.	- Basin Flood Test performed at 5 Ft.
194.6		HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	
	4				
	6				
190.6				Test pit complete at 7 Ft. due to refusal on highly-weathered rock.	
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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14 Worlds Fair Drive, Suite A
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LOG OF TEST PIT NO. TP-1151 (Stake #5051)

Sheet 1 of 1

LOG OF TEST PIT NO. TP-1152 (Stake #5050)

Sheet 1 of 1

PROJECT: **Venue at Hopewell**
 PROJECT LOCATION: **Hopewell Township, New Jersey**
 CLIENT: **Lennar**

PROJECT NO.: **31191132x1**

DATE STARTED: **11/6/2023**
 DATE COMPLETED: **11/6/2023**
 CONTRACTOR: **J.A. Neary Excavating**
 EQUIPMENT: **Case CX160**

GROUNDWATER ENCOUNTERED: **N/E**
 GROUND SURFACE ELEVATION: **197.5 Ft.**
 DATUM: **Survey**
 LOGGED BY: **AFS**
 CHECKED BY: **AMT**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
196.5	0			12 In. of Topsoil	- Infiltration rate = 0 in/hr at 2 Ft.
		ML		Red-brown (5YR 4/4), moist, Sandy SILT [Silt Loam per USDA]	
195.0	2	GM		Red-brown (5YR 4/4), moist, Silty GRAVEL with sand [Gravelly Sand per USDA]	
193.5	4	HW		Red-brown (5YR 4/4), moist, Highly-weathered ROCK (Shale)	- Basin Flood Test performed at 6 Ft.
	6				
190.5	7			Test pit complete at 7 Ft. due to refusal on highly-weathered rock.	
	8				
	10				
	12				
	14				
	16				
	18				

NOTES: **Location and elevation provided by Bowman.**
Backfilled on completion.



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 Somerset, NJ 08873

LOG OF TEST PIT NO. TP-1152 (Stake #5050)

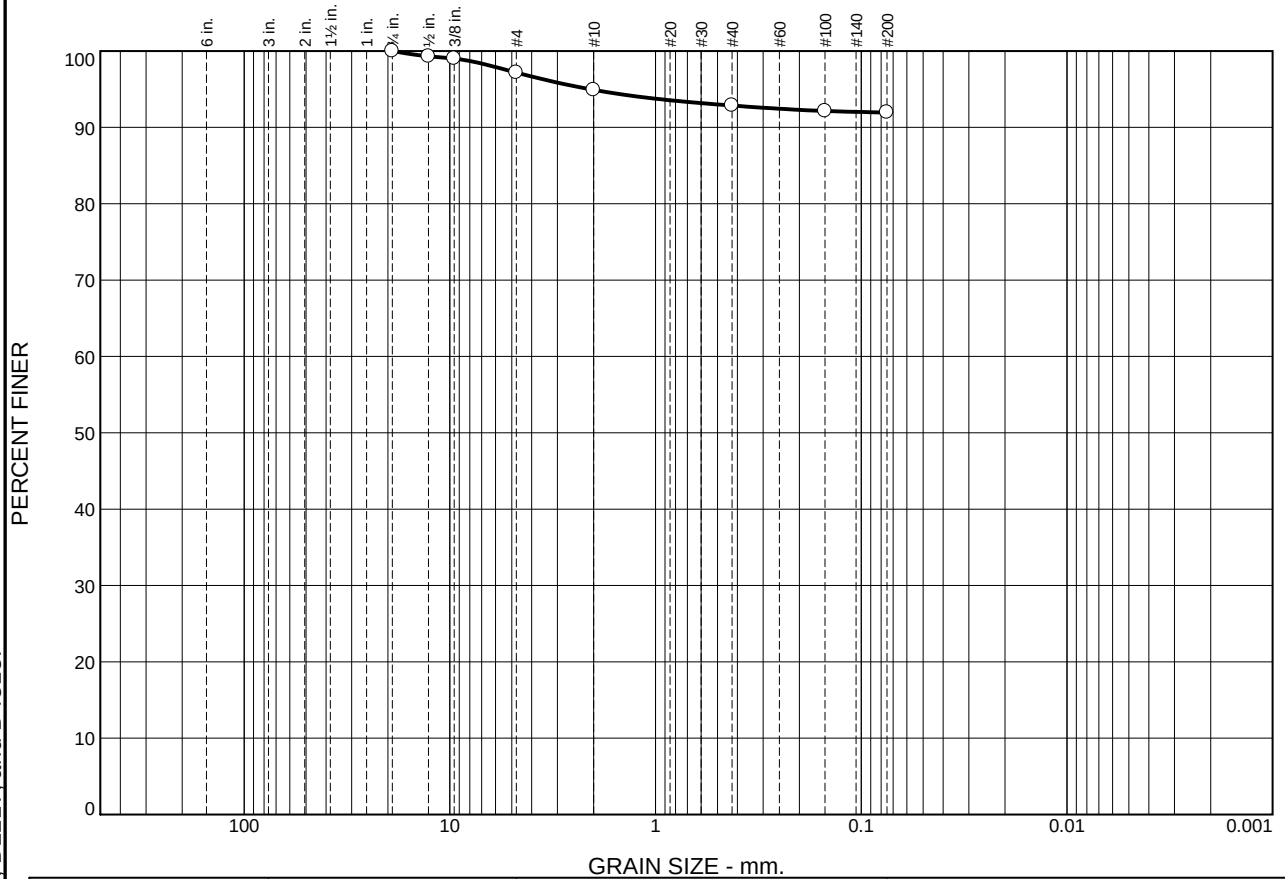
Sheet 1 of 1

APPENDIX D

Laboratory Data

ASTM Specifications performed my include: D421, D422, D2216, D2217, and D4318.

Particle Size Distribution Report



	% +3"		% Gravel		% Sand			% Fines		
			Coarse	Fine	Coarse	Medium	Fine	Silt		Clay
○	0.0		0.0	2.8	2.3	2.0	1.0	91.9		
×	LL	PL	D85	D60	D50	D30	D15	D10	Cc	Cu
○	NV	NV								
Material Description								USCS	AASHTO	
○ SILT								ML	A-4(0)	

Project No. 31191132x1

Client: Lennar

Project: Venue at Hopewell

Source of Sample: TP-1001 (Stake #5000)

Depth: 3.5



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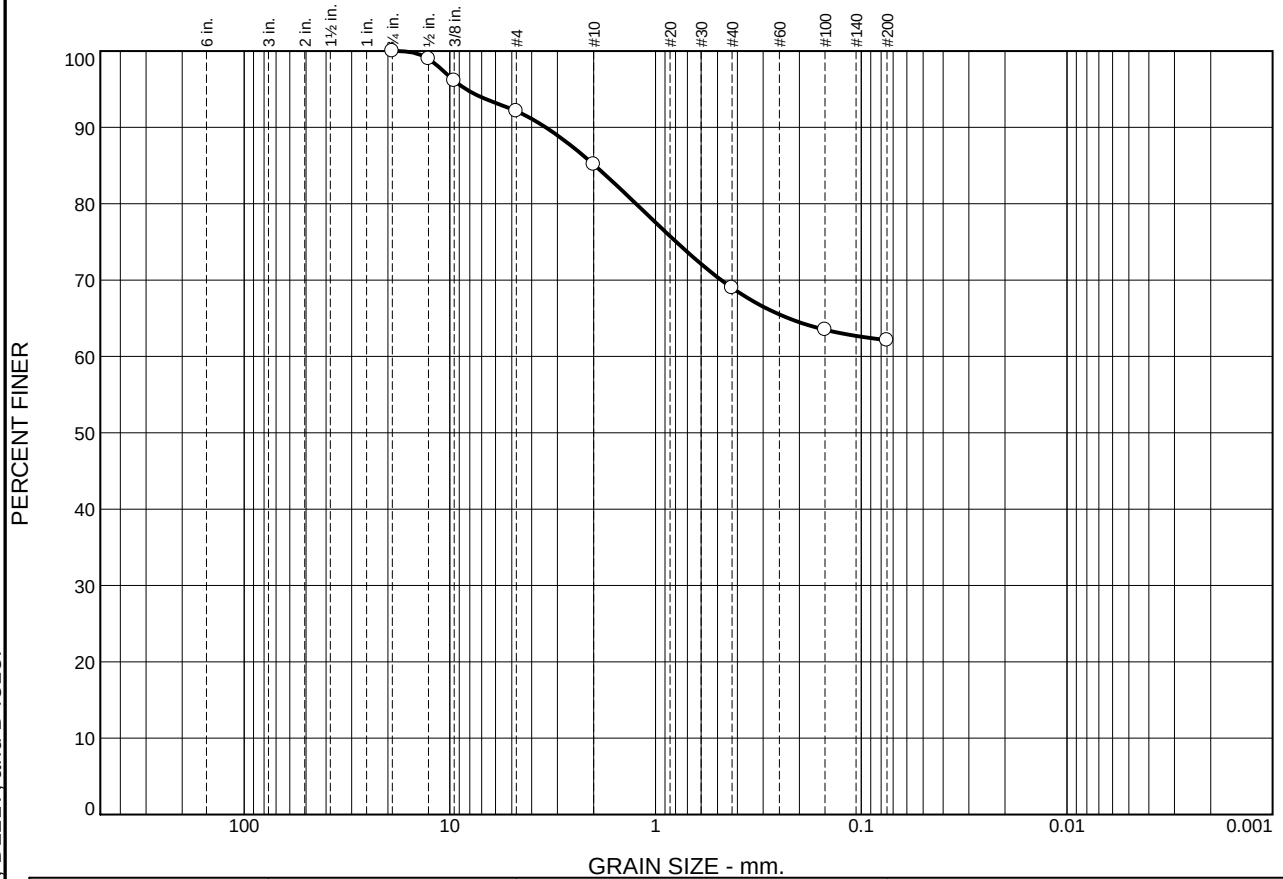
Remarks:

ONMC = 19.7%

Figure

Tested By: RR/AFS Checked By: AFS

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	7.9	7.0	16.1	6.9	62.1	

LL	PL	D ₈₅	D ₆₀	D ₅₀	D ₃₀	D ₁₅	D ₁₀	C _c	C _u
NV	NV	1.9723							

Material Description							USCS	AASHTO
Sandy SILT							ML	A-4(0)

Project No. 31191132x1 Client: Lennar Project: Venue at Hopewell Source of Sample: TP-1008 (Stake #5007) Depth: 4	Remarks: ONMC = 22.1%
 GEO-TECHNOLOGY ASSOCIATES, INC. 14 Worlds Fair Drive, Suite A Somerset, NJ 08873	

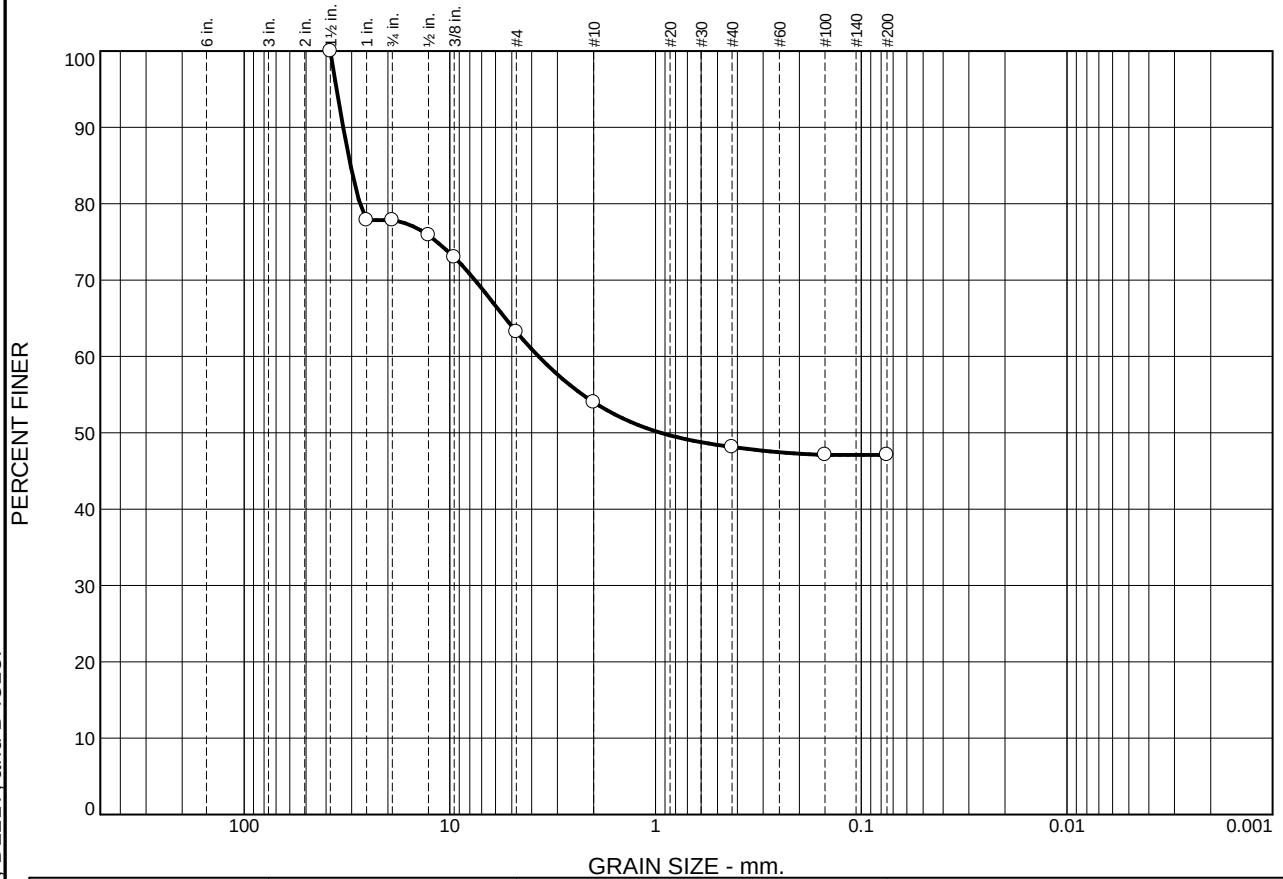
Figure

Tested By: RR/AFS

Checked By: AFS

ASTM Specifications performed my include: D421, D422, D2216, D2217, and D4318.

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	22.2	14.6	9.2	5.9	1.0	47.1	

LL	PL	D ₈₅	D ₆₀	D ₅₀	D ₃₀	D ₁₅	D ₁₀	C _c	C _u
NP	NP	30.3913	3.7018	0.9440					

Material Description							USCS	AASHTO
Silty GRAVEL with sand							GM	A-4(0)

Project No. 31191132x1 Client: Lennar Project: Venue at Hopewell Source of Sample: TP-1016 (Stake #5057) Depth: 1	Remarks: ONMC = 19.7%
 GEO-TECHNOLOGY ASSOCIATES, INC. 14 Worlds Fair Drive, Suite A Somerset, NJ 08873	

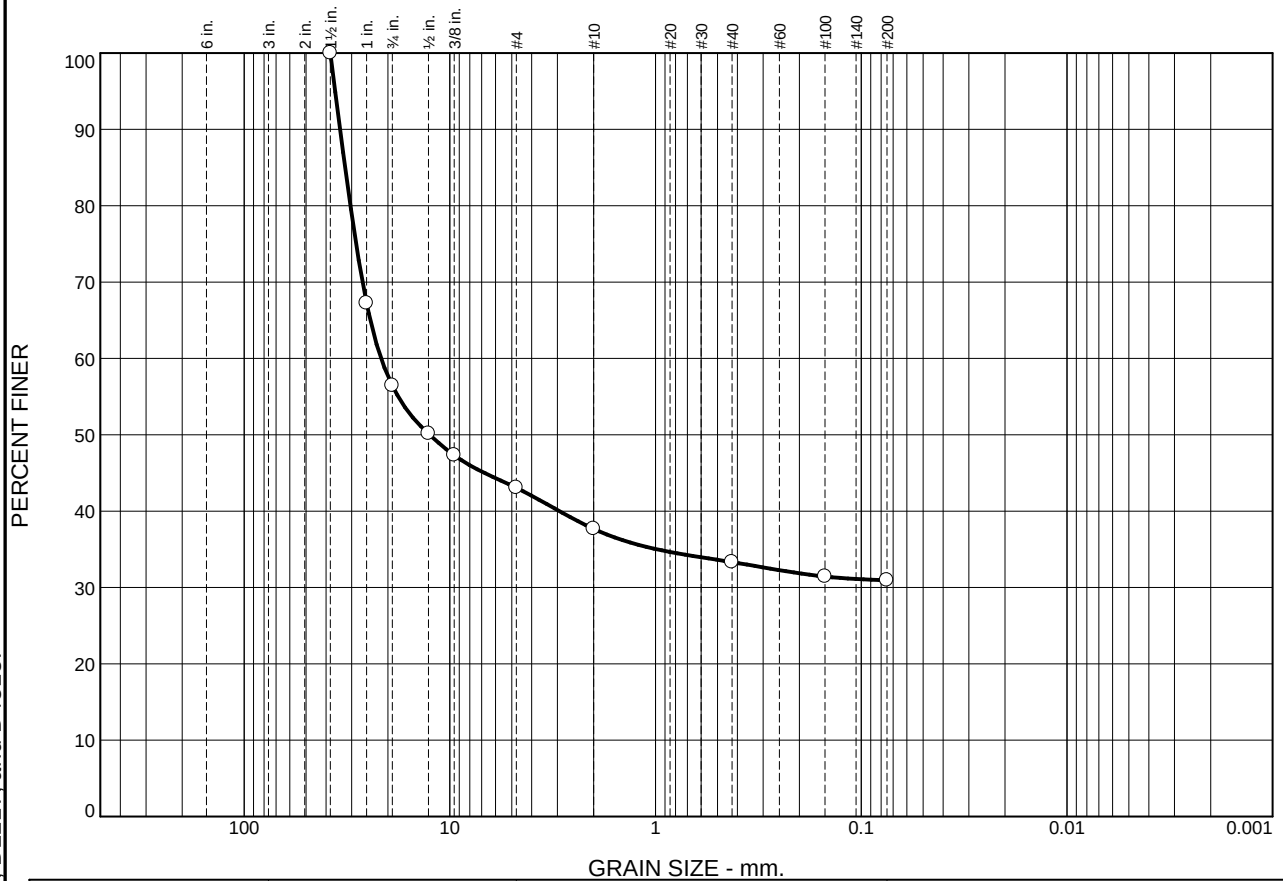
Figure

Tested By: RR/AFS

Checked By: AFS

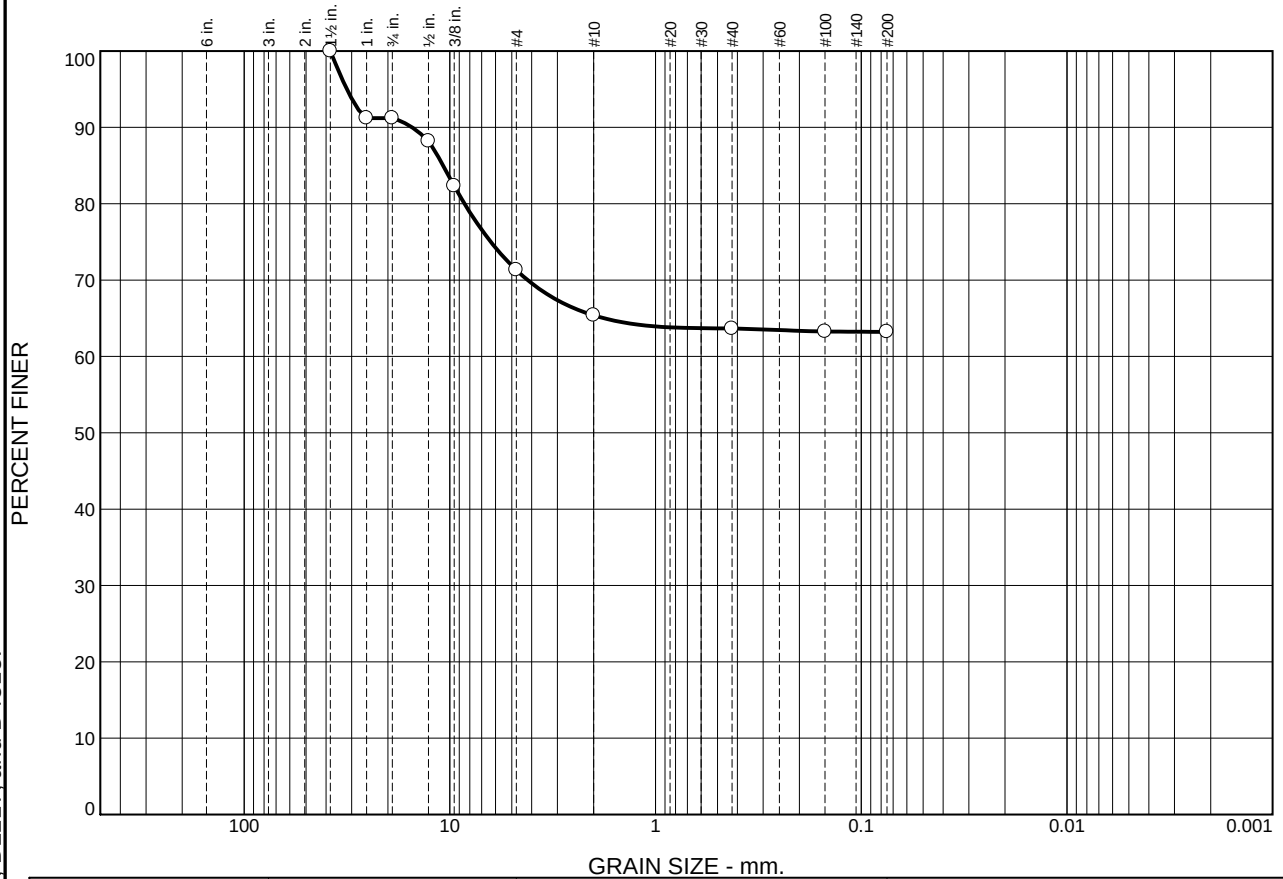
ASTM Specifications performed my include: D421, D422, D2216, D2217, and D4318.

Particle Size Distribution Report



ASTM Specifications performed my include: D421, D422, D2216, D2217, and D4318.

Particle Size Distribution Report

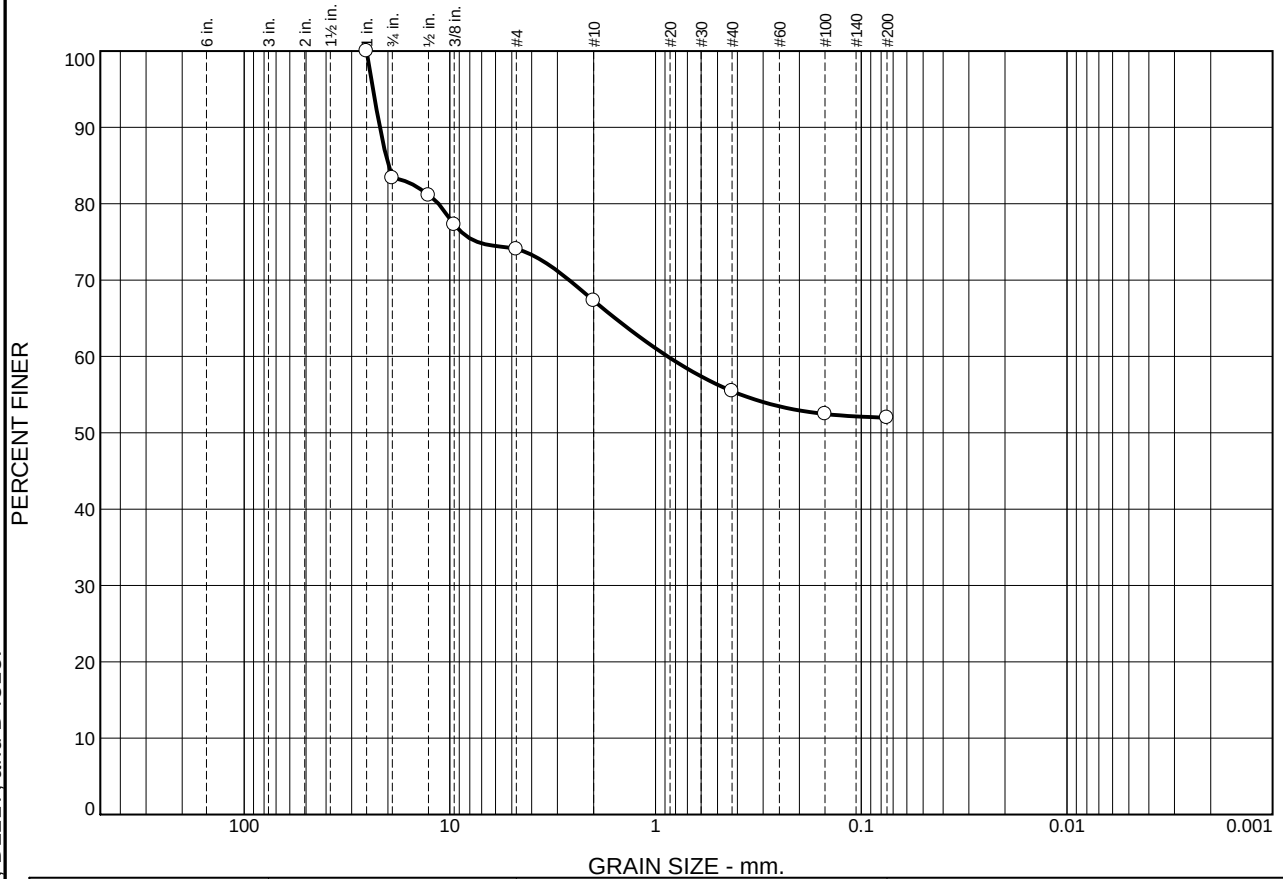


% +3"		% Gravel		% Sand			% Fines		
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay	
0.0		8.8	19.9	5.9	1.7	0.5	63.2		
LL	PL	D85	D60	D50	D30	D15	D10	Cc	Cu
NV	NV	10.7831							
Material Description							USCS	AASHTO	
Gravelly SILT							ML	A-4(0)	
Project No. 31191132x1 Client: Lennar							Remarks: ONMC = 20.5%		
Project: Venue at Hopewell									
Source of Sample: TP-1022 (Stake #5013) Depth: 1									
 GEO-TECHNOLOGY ASSOCIATES, INC. 14 Worlds Fair Drive, Suite A Somerset, NJ 08873							Figure		

Tested By: RR/AFS

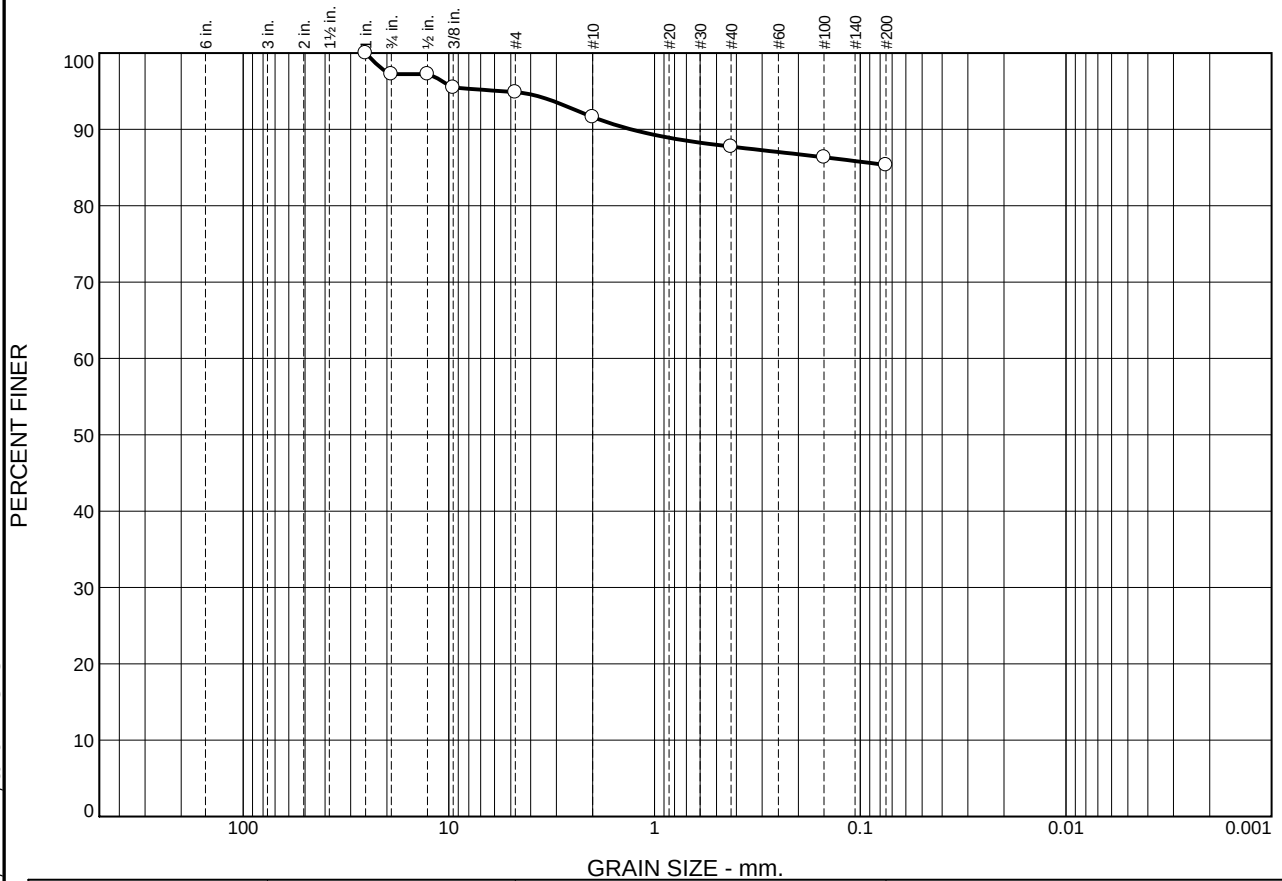
Checked By: AFS

Particle Size Distribution Report



ASTM Specifications performed my include: D421, D422, D2216, D2217, and D4318.

Particle Size Distribution Report



	% +3"		% Gravel		% Sand			% Fines		
			Coarse	Fine	Coarse	Medium	Fine	Silt		Clay
○	0.0		2.8	2.3	3.3	3.9	2.4	85.3		
×	LL	PL	D85	D60	D50	D30	D15	D10	Cc	Cu
○	NV	NV								
Material Description								USCS	AASHTO	
○ SILT								ML	A-4(0)	

Project No. 31191132x1 Client: Lennar

Project: Venue at Hopewell

Source of Sample: TP-1028 (Stake #5145) Depth: 1



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Remarks:

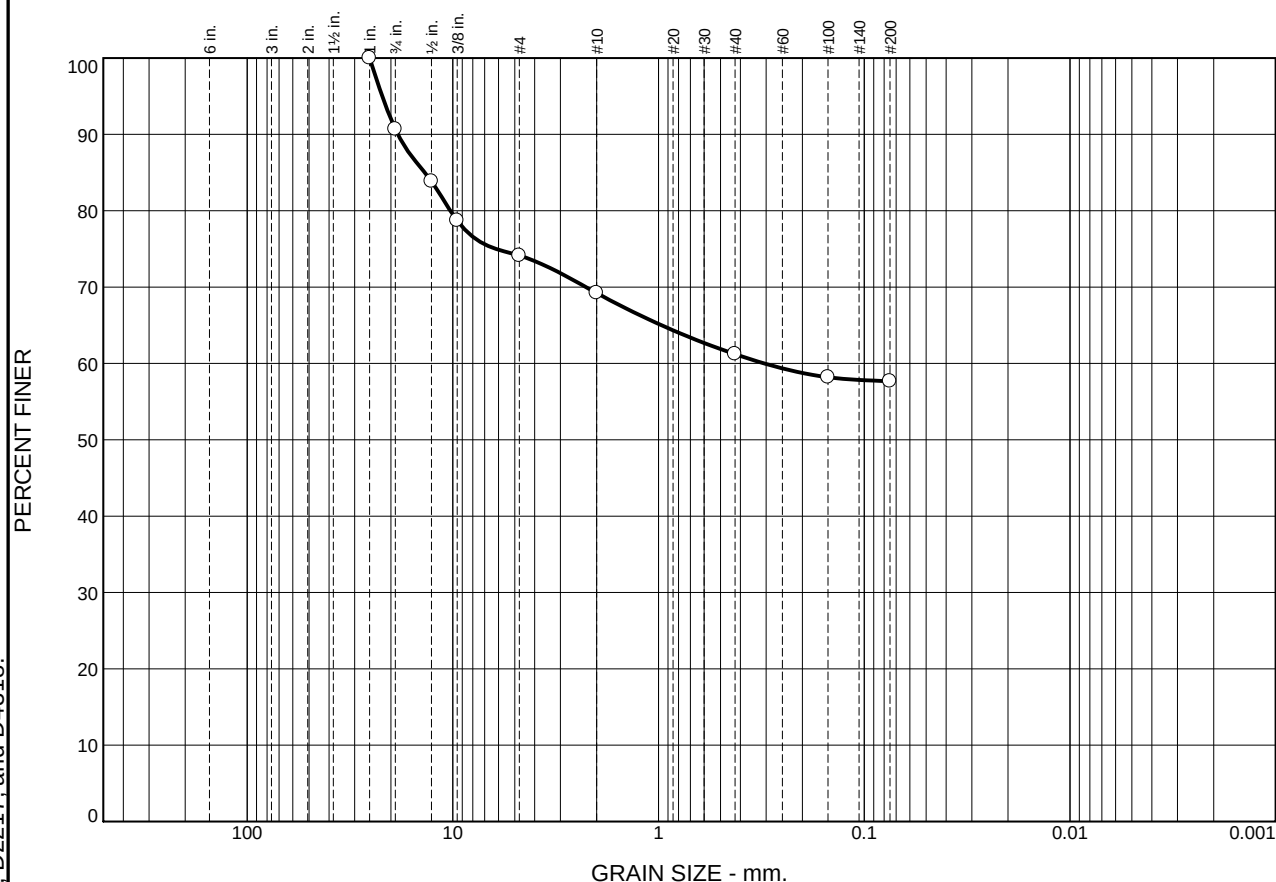
ONMC = 24.2%

Figure

Tested By: RR

Checked By: AFS

PERCENT FINER

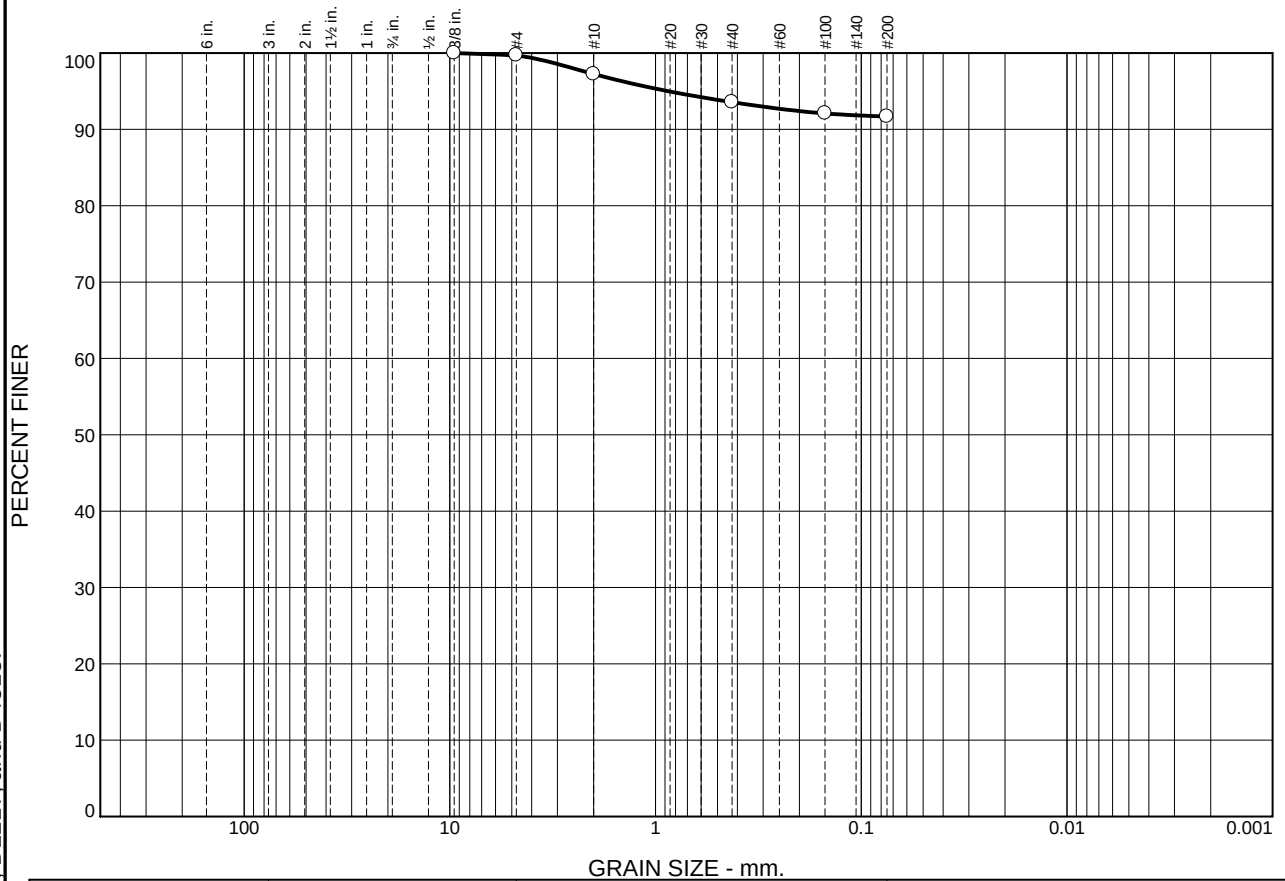


GRAIN SIZE - mm.											
% +3"		% Gravel		% Sand			% Fines				
		Coarse	Fine	Coarse	Medium	Fine	Silt		Clay		
0.0		9.3	16.6	4.9	8.0	3.5	57.7				
LL	PL	D ₈₅	D ₆₀	D ₅₀	D ₃₀	D ₁₅	D ₁₀	C _c	C _u		
NV	NV	13.6923	0.3063								
Material Description								USCS	AASHTO		
Gravelly SILT with sand								ML	A-4(0)		
Project No. 31191132x1 Client: Lennar Project: Venue at Hopewell Source of Sample: TP-1037 (Stake #5021) Depth: 2.5								Remarks: ○NMC = 16.4%			
 GEO-TECHNOLOGY ASSOCIATES, INC. 14 Worlds Fair Drive, Suite A Somerset, NJ 08873								Figure			

Tested By: RR **Checked By:** VP

ASTM Specifications performed my include: D421, D422, D2216, D2217, and D4318.

Particle Size Distribution Report



% +3"		% Gravel		% Sand			% Fines			
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay		
☐	0.0	0.0	0.3	2.5	3.6	1.9	91.7			
☒	LL	PL	D85	D60	D50	D30	D15	D10	Cc	Cu
☐	NV	NV								
Material Description								USCS	AASHTO	
☐	SILT								ML	A-4(0)
Project No. 31191132x1 Client: Lennar Project: Venue at Hopewell Source of Sample: TP-1043 (Stake #5027) Depth: 1.5								Remarks: ONMC = 21.6%		
 GEO-TECHNOLOGY ASSOCIATES, INC. 14 Worlds Fair Drive, Suite A Somerset, NJ 08873								Figure		

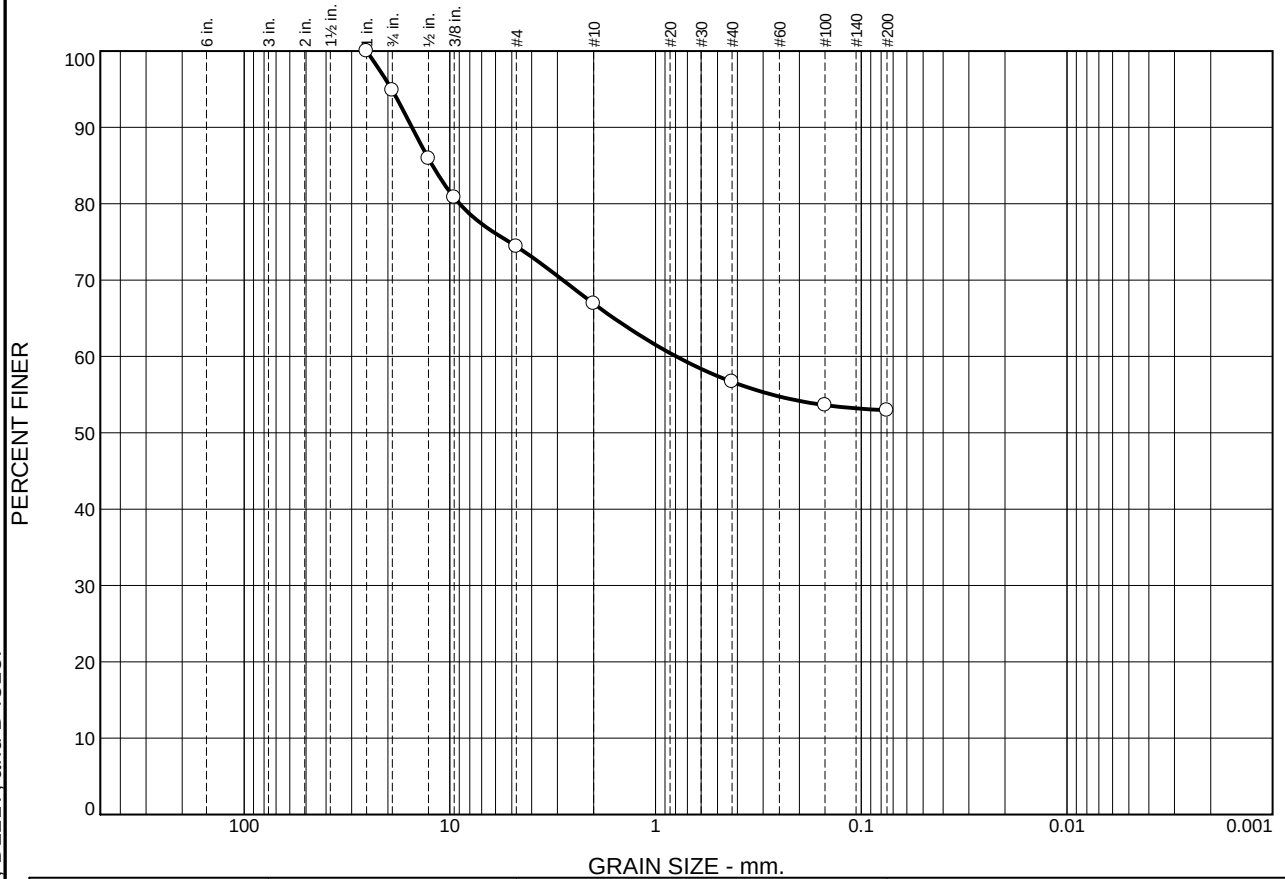
Tested By: RR Checked By: VP

Particle Size Distribution Report



ASTM Specifications performed my include: D421, D422, D2216, D2217, and D4318.

Particle Size Distribution Report

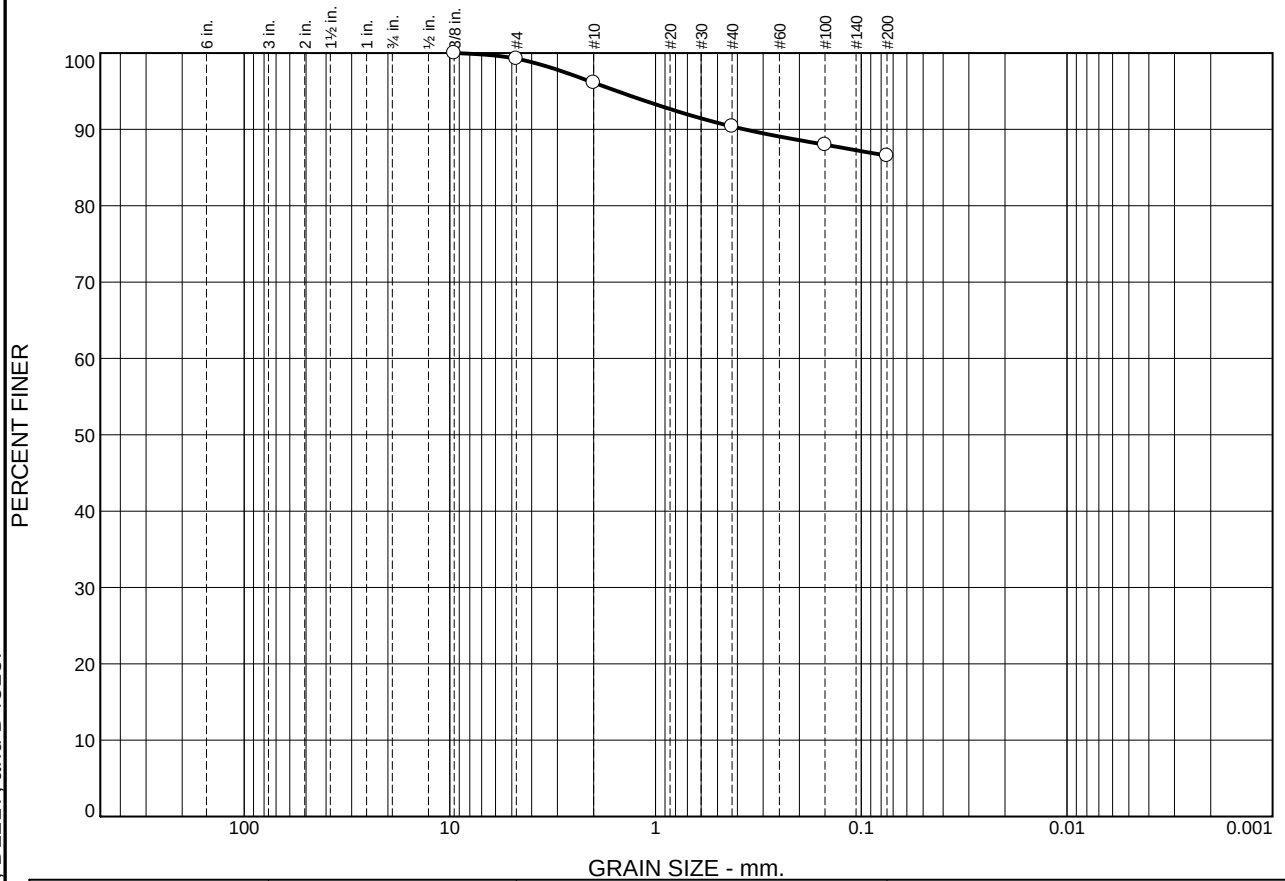


% +3"		% Gravel		% Sand			% Fines			
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay		
☐	0.0	5.1	20.5	7.5	10.2	3.8	52.9			
☒	LL	PL	D85	D60	D50	D30	D15	D10	Cc	Cu
☐	NV	NV	12.1406	0.7932						
Material Description								USCS	AASHTO	
☐ Gravelly SILT with sand								ML	A-4(0)	
Project No. 31191132x1 Client: Lennar								Remarks: ☐ NMC = 10.0%		
Project: Venue at Hopewell										
☐ Source of Sample: TP-1051 (Stake #5083) Depth: 3										
 GEO-TECHNOLOGY ASSOCIATES, INC. 14 Worlds Fair Drive, Suite A Somerset, NJ 08873								Figure		

Tested By: RR Checked By: VP

ASTM Specifications performed my include: D421, D422, D2216, D2217, and D4318.

Particle Size Distribution Report

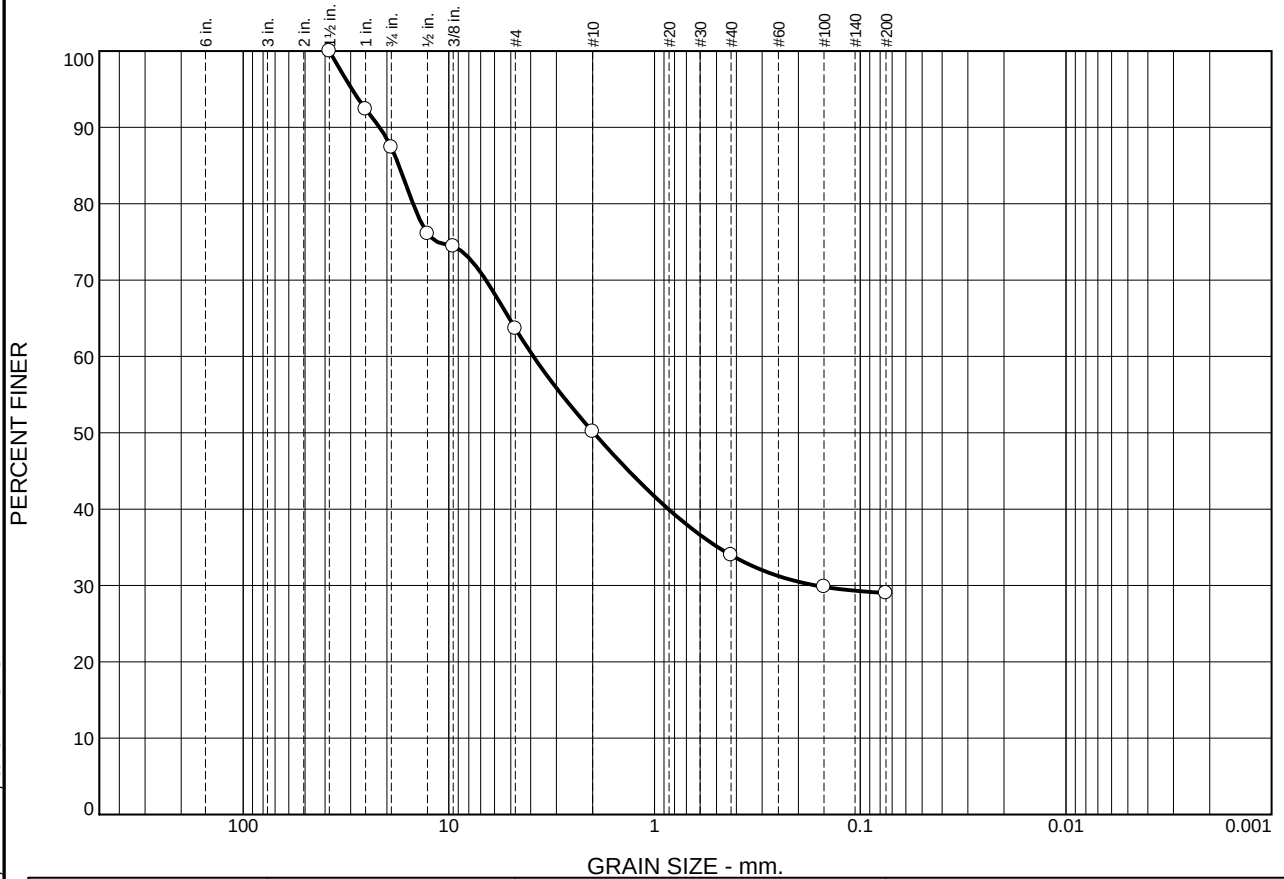


% +3"		% Gravel		% Sand			% Fines			
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay		
☐	0.0	0.0	0.7	3.2	5.7	3.8	86.6			
☒	LL	PL	D85	D60	D50	D30	D15	D10	Cc	Cu
☐	NV	NV								
Material Description								USCS	AASHTO	
☐	SILT								ML	A-4(0)
Project No. 31191132x1 Client: Lennar Project: Venue at Hopewell Source of Sample: TP-1053 (Stake #5079) Depth: 3								Remarks: ONMC = 22.1%		
 GEO-TECHNOLOGY ASSOCIATES, INC. 14 Worlds Fair Drive, Suite A Somerset, NJ 08873								Figure		

Tested By: RR Checked By: AFS

ASTM Specifications performed my include: D421, D422, D2216, D2217, and D4318.

Particle Size Distribution Report



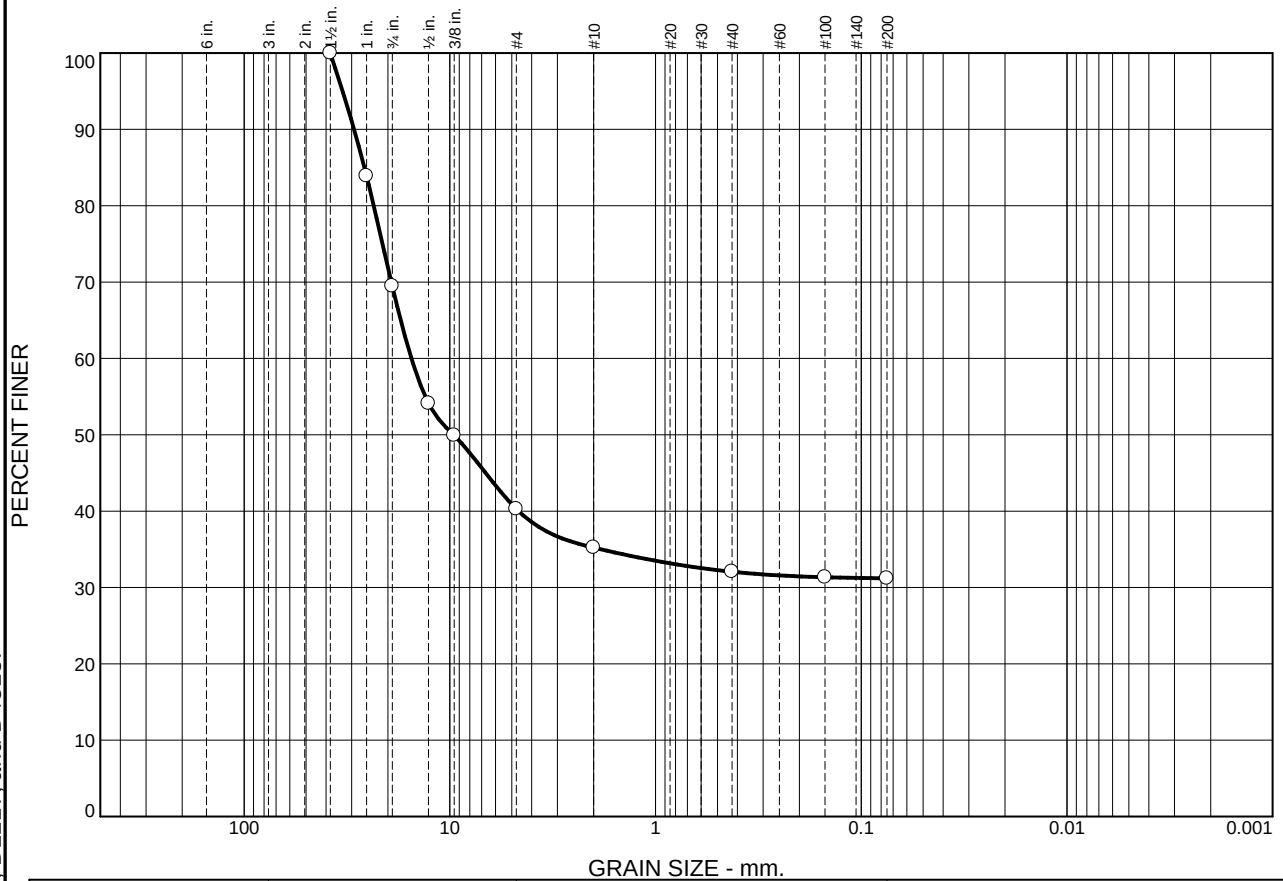
	% +3"		% Gravel		% Sand			% Fines		
			Coarse	Fine	Coarse	Medium	Fine	Silt		Clay
○	0.0		12.6	23.7	13.5	16.2	5.0	29.0		
×	LL	PL	D85	D60	D50	D30	D15	D10	Cc	Cu
○	NP	NP	17.4890	3.8804	1.9764	0.1644				

Material Description							USCS	AASHTO
Silty GRAVEL with sand							GM	A-2-4(0)

Project No. 31191132x1 Client: Lennar Project: Venue at Hopewell Source of Sample: TP-1073 (Stake #5120) Depth: 2	Remarks: ONMC = 16.4%
 GEO-TECHNOLOGY ASSOCIATES, INC. 14 Worlds Fair Drive, Suite A Somerset, NJ 08873	Figure

Tested By: RR Checked By: AMT

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	30.5	29.2	5.1	3.1	0.9	31.2	

LL	PL	D ₈₅	D ₆₀	D ₅₀	D ₃₀	D ₁₅	D ₁₀	C _c	C _u
NP	NP	26.0136	15.3722	9.5923					

Material Description	USCS	AASHTO
Silty GRAVEL	GM	A-2-4(0)

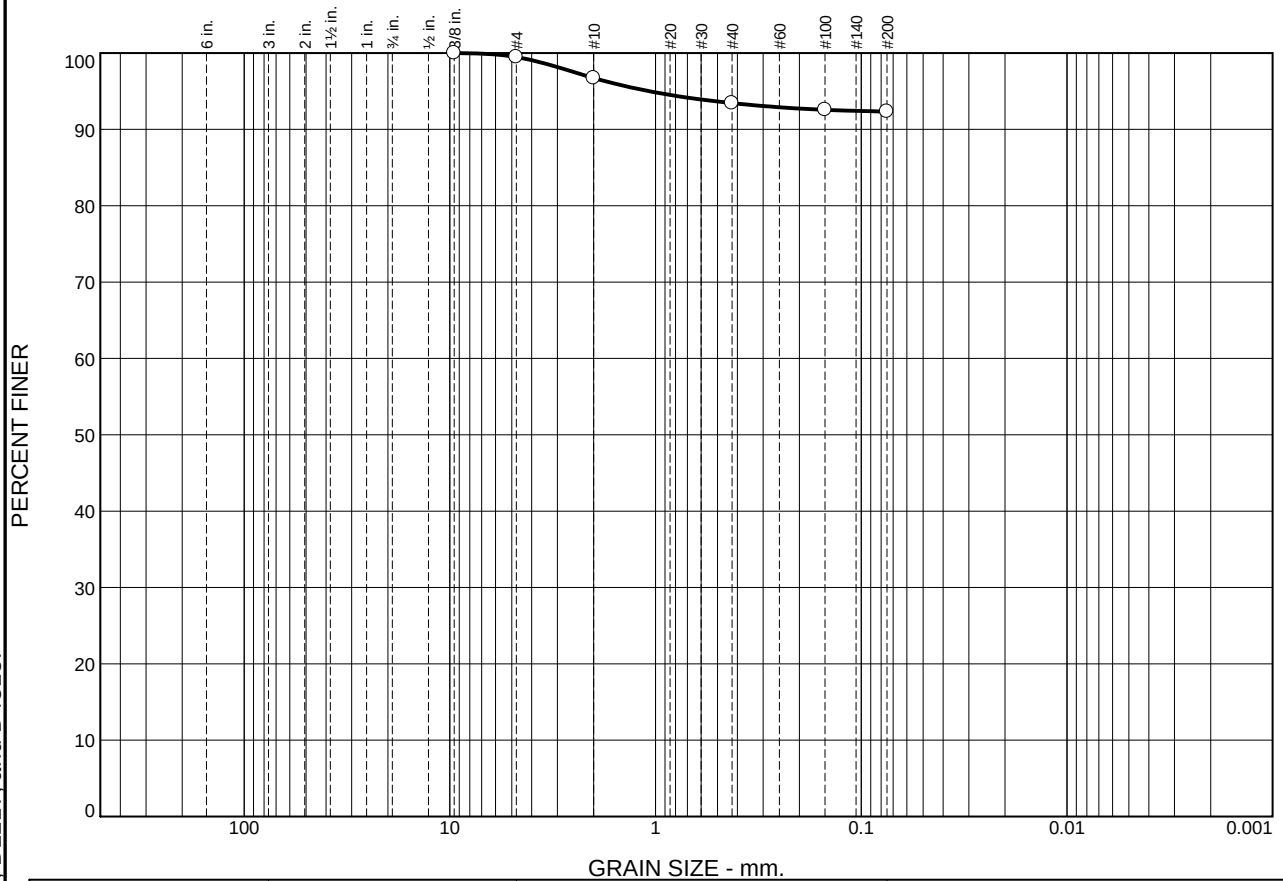
Project No. 31191132x1 Client: Lennar Project: Venue at Hopewell Source of Sample: TP-1080 (Stake #5032) Depth: 2	Remarks: ONMC = 15.6%
 GEO-TECHNOLOGY ASSOCIATES, INC. 14 Worlds Fair Drive, Suite A Somerset, NJ 08873	

Figure

Tested By: RR Checked By: AMT

ASTM Specifications performed my include: D421, D422, D2216, D2217, and D4318.

Particle Size Distribution Report



	% +3"		% Gravel		% Sand			% Fines		
			Coarse	Fine	Coarse	Medium	Fine	Silt		Clay
○	0.0		0.0	0.5	2.8	3.3	1.1	92.3		
×	LL	PL	D85	D60	D50	D30	D15	D10	Cc	Cu
○	NV	NV								

Material Description							USCS	AASHTO
SILT							ML	A-4(0)

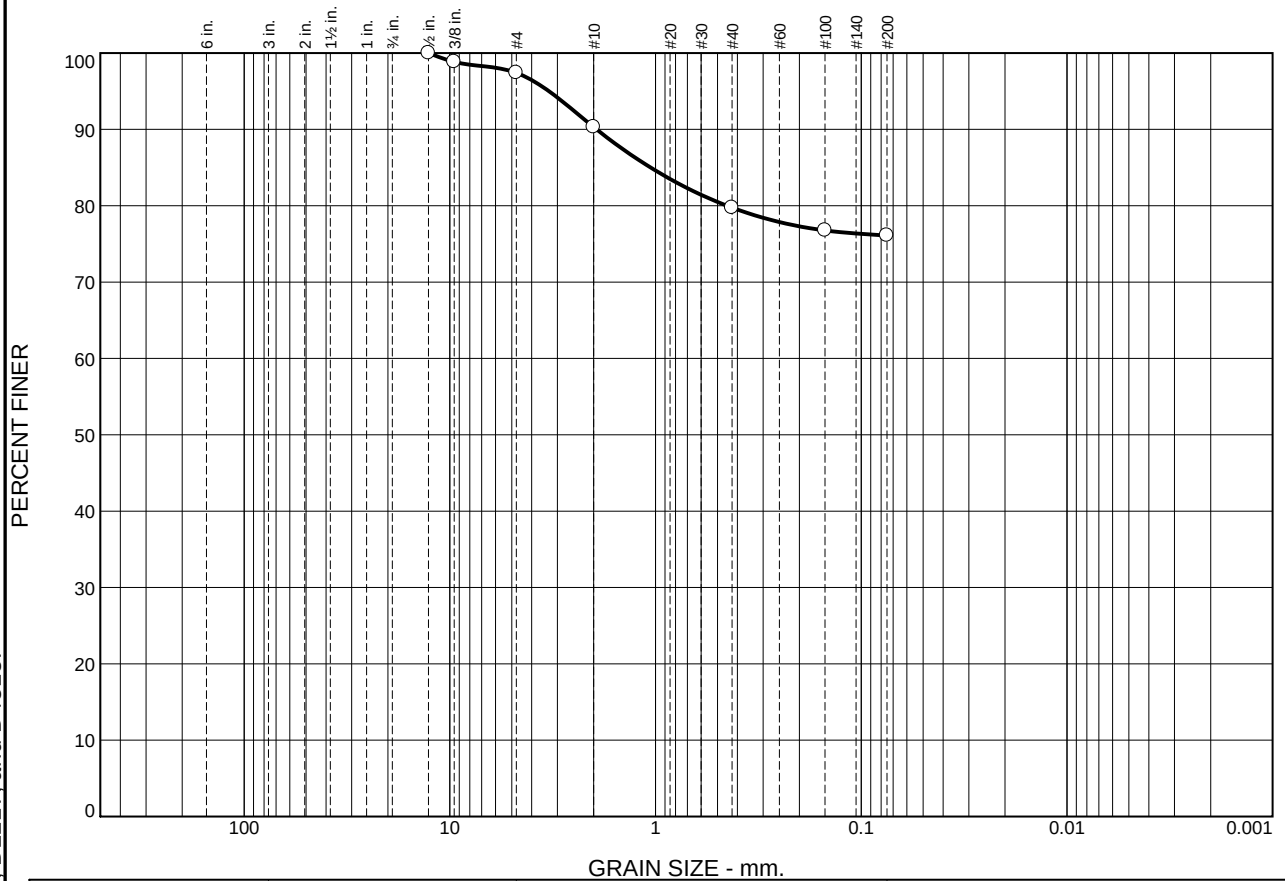
Project No. 31191132x1 Client: Lennar Project: Venue at Hopewell Source of Sample: TP-1094 (Stake #5091) Depth: 2	Remarks: ONMC = 22.7%
 GEO-TECHNOLOGY ASSOCIATES, INC. 14 Worlds Fair Drive, Suite A Somerset, NJ 08873	Figure

Tested By: RR Checked By: AMT

ASTM Specifications performed my include: D421, D422, D2216, D2217, and D4318.

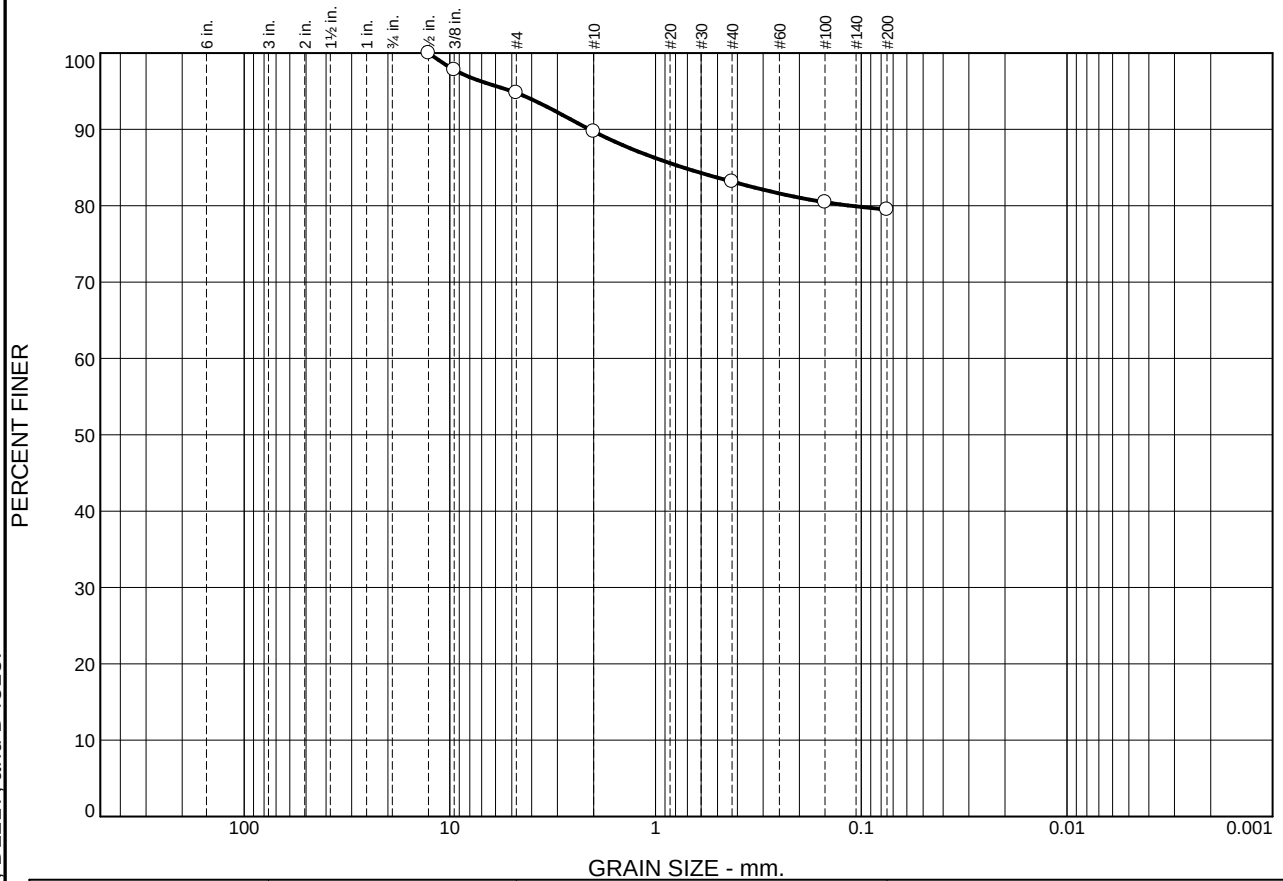
ASTM Specifications performed my include: D421, D422, D2216, D2217, and D4318.

Particle Size Distribution Report



ASTM Specifications performed my include: D421, D422, D2216, D2217, and D4318.

Particle Size Distribution Report



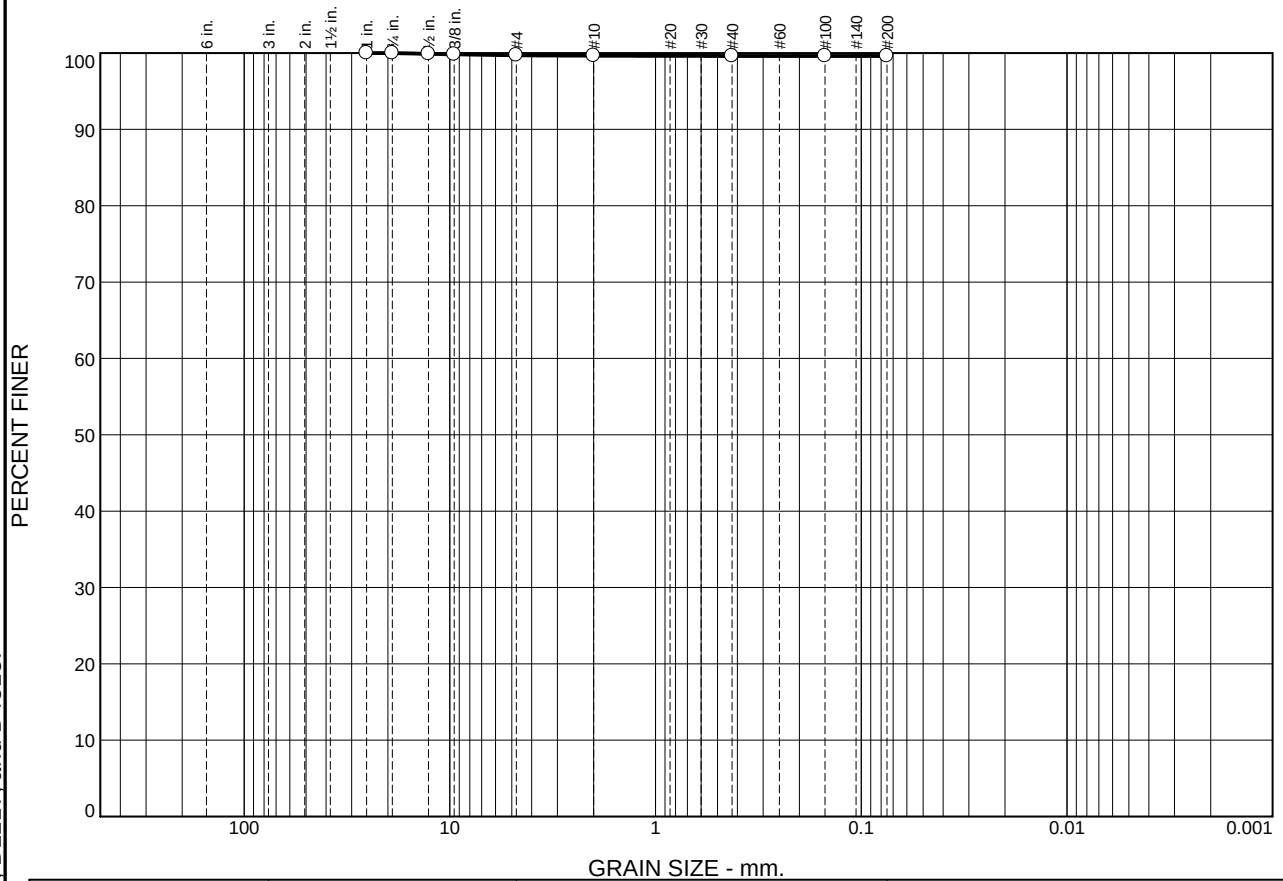
% +3"		% Gravel		% Sand			% Fines			
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay		
☐	0.0	0.0	5.2	5.1	6.5	3.7	79.5			
☒	LL	PL	D85	D60	D50	D30	D15	D10	Cc	Cu
☐	33.9	21.7	0.7321							
Material Description									USCS	AASHTO
☐ Lean CLAY with sand									CL	A-6(9)
Project No. 31191132x1 Client: Lennar Project: Venue at Hopewell ☐ Source of Sample: TP-1104 (Stake #5101) Depth: 1									Remarks: ONMC = 23.7%	
 GEO-TECHNOLOGY ASSOCIATES, INC. 14 Worlds Fair Drive, Suite A Somerset, NJ 08873										

Figure

Tested By: RR Checked By: AMT

ASTM Specifications performed my include: D421, D422, D2216, D2217, and D4318.

Particle Size Distribution Report

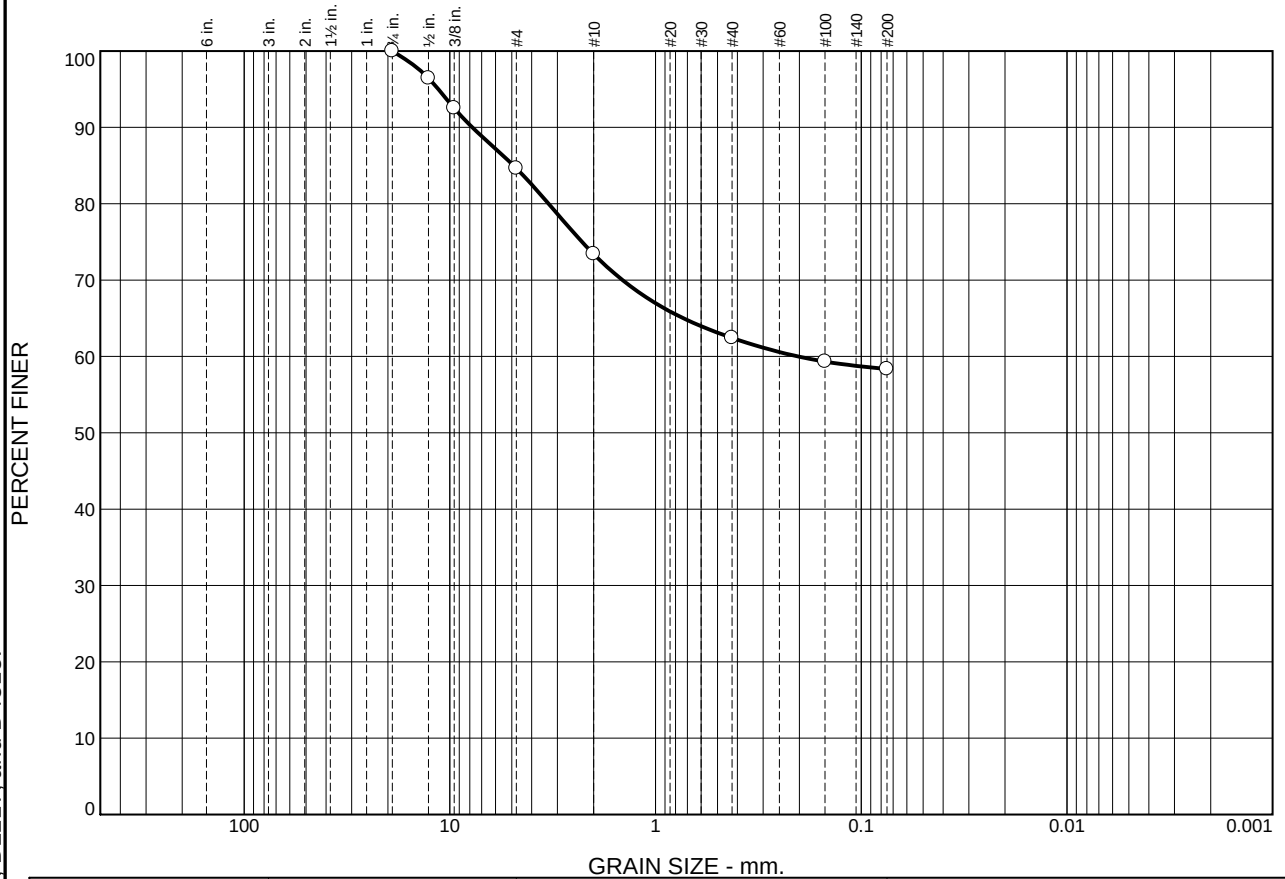


% +3"		% Gravel		% Sand			% Fines		
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay	
	0.0	0.0	0.3	0.0	0.1		99.6		
LL	PL	D85	D60	D50	D30	D15	D10	Cc	Cu
NV	NV								
Material Description							USCS	AASHTO	
SILT							ML	A-4(0)	
Project No. 31191132x1 Client: Lennar							Remarks: ONMC = 15.2%		
Project: Venue at Hopewell									
Source of Sample: TP-1121 (Stake #5036) Depth: 2									
 GEO-TECHNOLOGY ASSOCIATES, INC. 14 Worlds Fair Drive, Suite A Somerset, NJ 08873							Figure		

Tested By: RR Checked By: AMT

ASTM Specifications performed my include: D421, D422, D2216, D2217, and D4318.

Particle Size Distribution Report

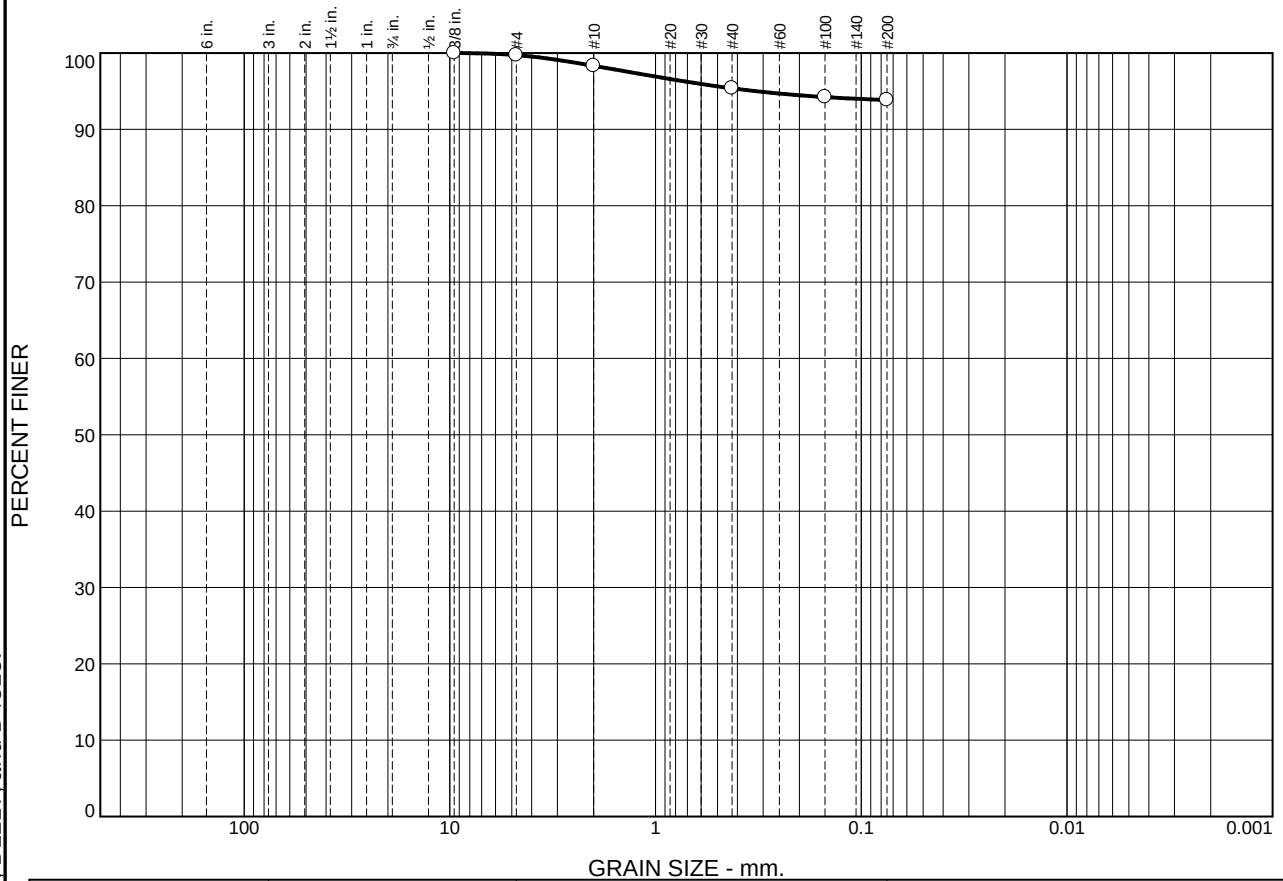


% +3"		% Gravel		% Sand			% Fines			
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay		
☐	0.0	0.0	15.4	11.2	11.0	4.1	58.3			
☒	LL	PL	D85	D60	D50	D30	D15	D10	Cc	Cu
☐	NV	NV	4.9059	0.2030						
Material Description									USCS	AASHTO
☐ Sandy SILT with gravel									ML	A-4(0)
Project No. 31191132x1 Client: Lennar									Remarks: ONMC = 14.5%	
Project: Venue at Hopewell										
☐ Source of Sample: TP-1127 (Stake #5042) Depth: 2										
 GEO-TECHNOLOGY ASSOCIATES, INC. 14 Worlds Fair Drive, Suite A Somerset, NJ 08873									Figure	

Tested By: RR Checked By: AMT

ASTM Specifications performed my include: D421, D422, D2216, D2217, and D4318.

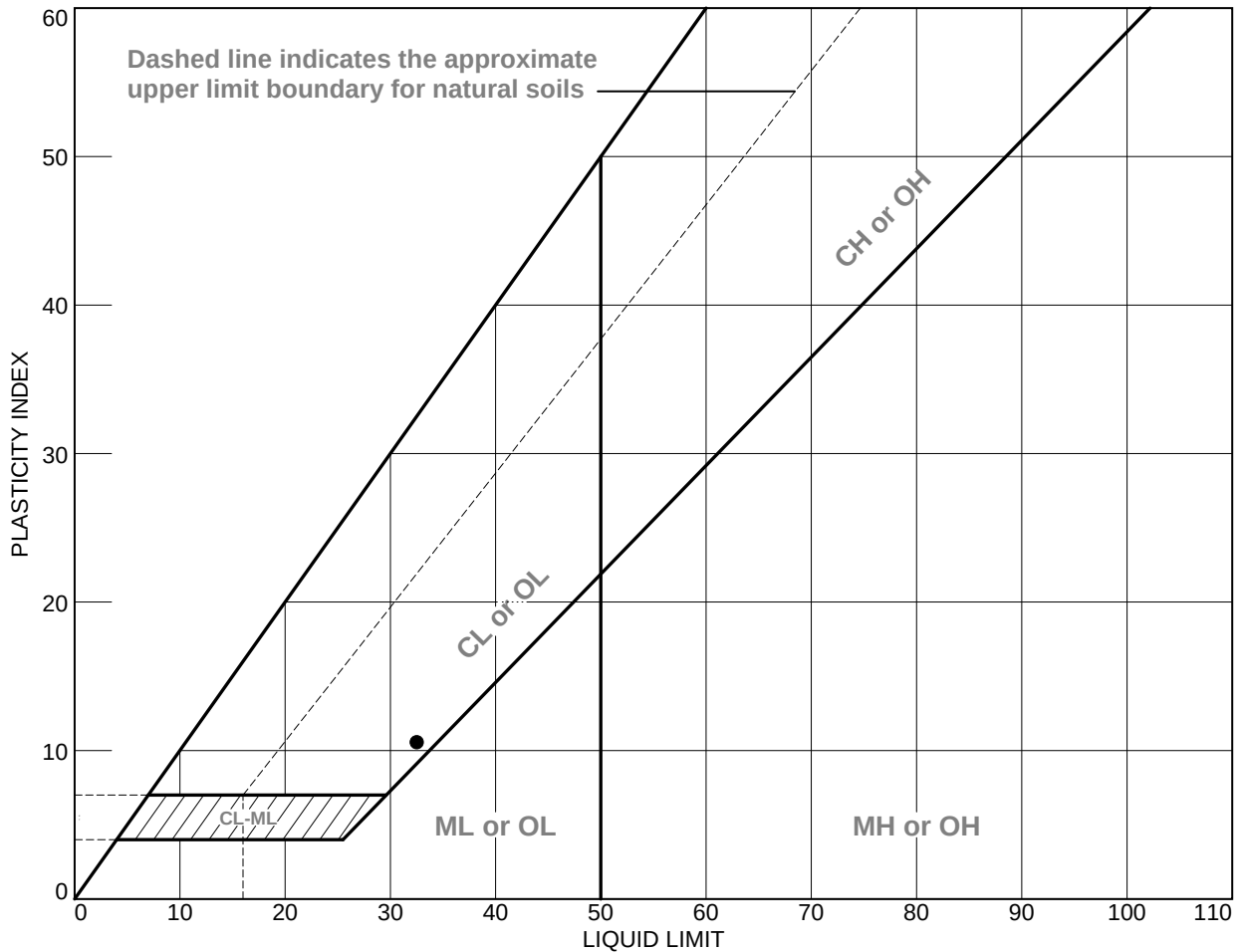
Particle Size Distribution Report



% +3"		% Gravel		% Sand			% Fines		
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay	
	0.0	0.0	0.3	1.4	2.9	1.6	93.8		
LL	PL	D85	D60	D50	D30	D15	D10	Cc	Cu
32.0	23.7								
Material Description							USCS	AASHTO	
SILT							ML	A-4(8)	
Project No. 31191132x1 Client: Lennar							Remarks: ONMC = 22.2%		
Project: Venue at Hopewell									
Source of Sample: TP-1135A (Stake #5132) Depth: 2									
 GEO-TECHNOLOGY ASSOCIATES, INC. 14 Worlds Fair Drive, Suite A Somerset, NJ 08873							Figure		

Tested By: RR Checked By: AMT

LIQUID AND PLASTIC LIMITS TEST REPORT - ASTM D4318



SOIL DATA								
SYMBOL	SOURCE	SAMPLE NO.	DEPTH	NATURAL WATER CONTENT (%)	PLASTIC LIMIT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	USCS
●	TP-1086 (Stake #5110)		2	20.3	22.1	32.6	10.5	CL



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Client: Lennar
Project: Venue at Hopewell

Project No.: 31191132x1

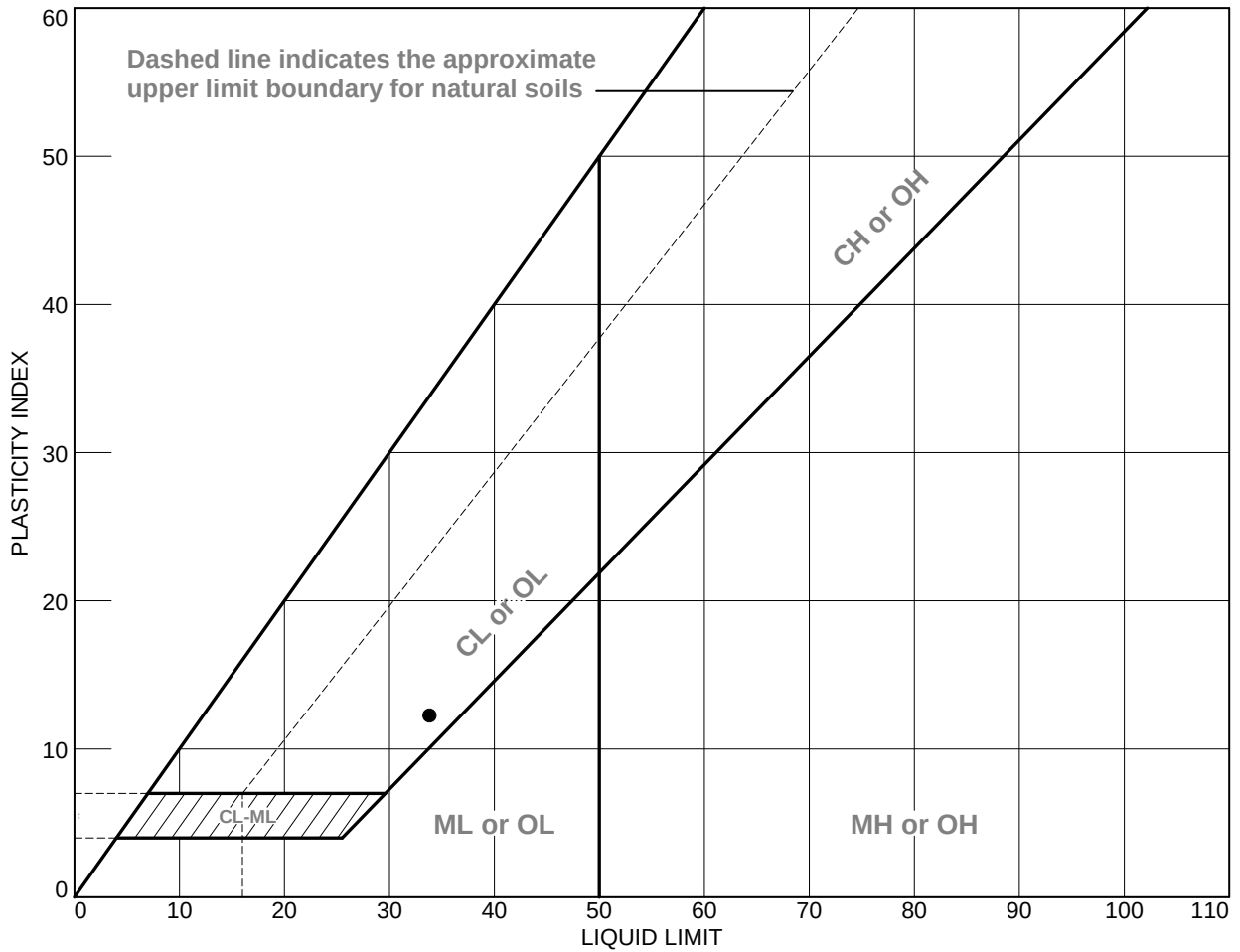
Figure

Tested By: RR

Checked By: AMT

ASTM Specifications performed my include: D421, D422, D2216, D2217, and D4318.

LIQUID AND PLASTIC LIMITS TEST REPORT - ASTM D4318



SOIL DATA								
SYMBOL	SOURCE	SAMPLE NO.	DEPTH	NATURAL WATER CONTENT (%)	PLASTIC LIMIT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	USCS
●	TP-1104 (Stake #5101)		1	23.7	21.7	33.9	12.2	CL



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Somerset, NJ 08873

Client: Lennar
Project: Venue at Hopewell

Project No.: 31191132x1

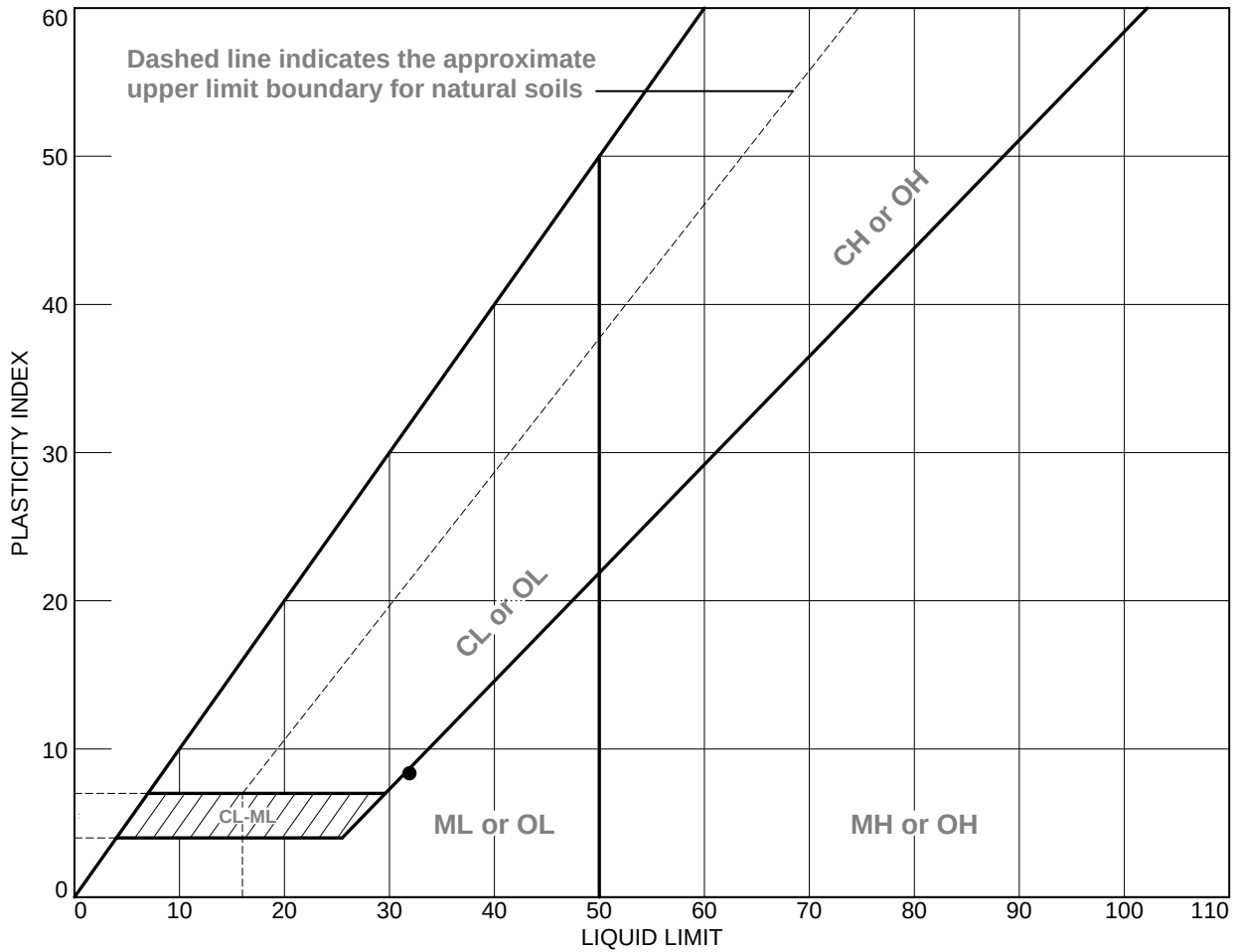
Figure

Tested By: RR

Checked By: AMT

ASTM Specifications performed my include: D421, D422, D2216, D2217, and D4318.

LIQUID AND PLASTIC LIMITS TEST REPORT - ASTM D4318



SOIL DATA								
SYMBOL	SOURCE	SAMPLE NO.	DEPTH	NATURAL WATER CONTENT (%)	PLASTIC LIMIT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	USCS
●	TP-1135A (Stake #5132)		2	22.2	23.7	32.0	8.3	ML



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14 Worlds Fair Drive, Suite A
Somerset, NJ 08873

Client: Lennar
Project: Venue at Hopewell

Project No.: 31191132x1

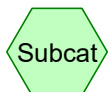
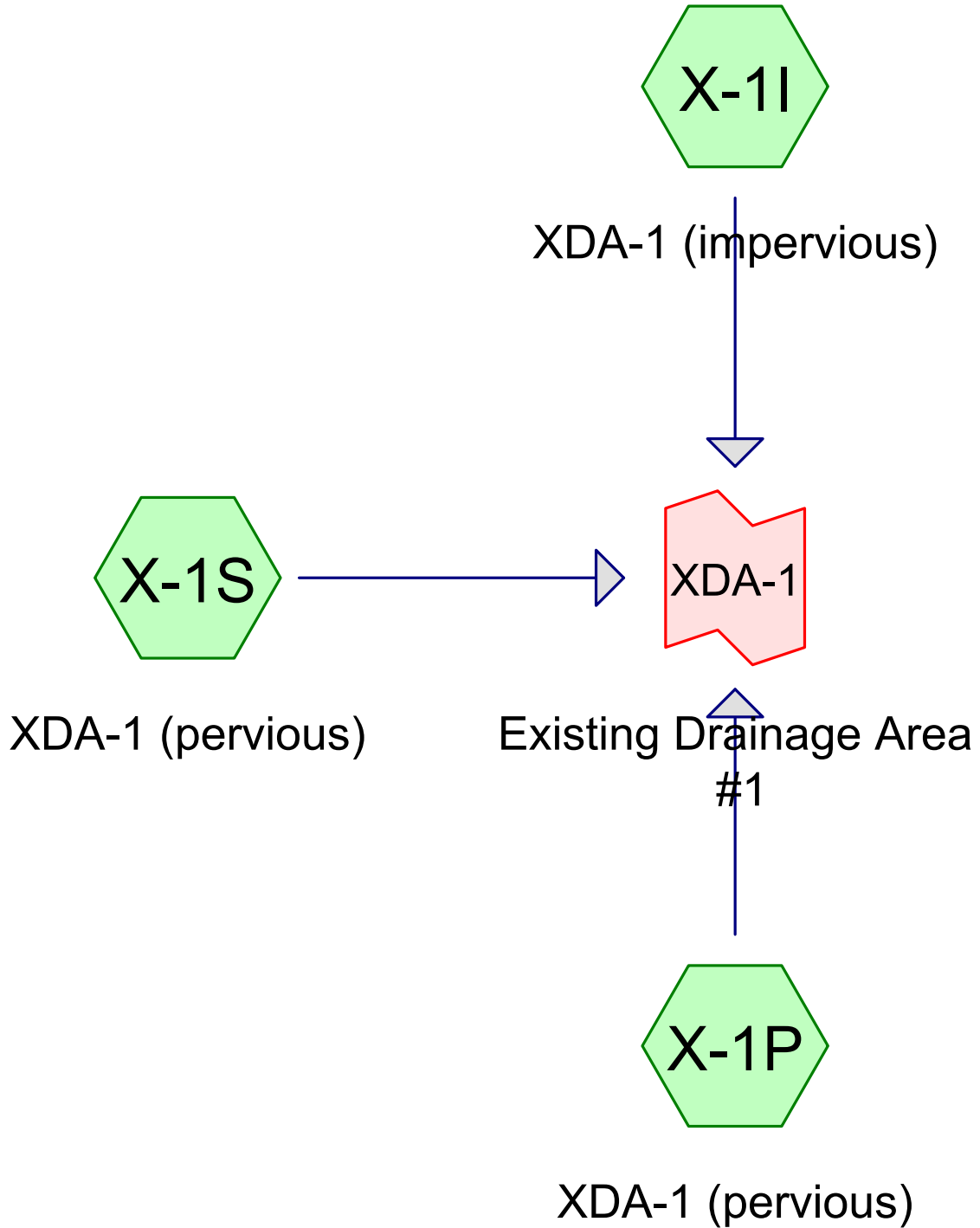
Figure

Tested By: AFS

Checked By: AMT

ASTM Specifications performed my include: D421, D422, D2216, D2217, and D4318.

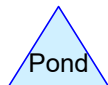
APPENDIX 2
TR-55 CALCULATIONS – EXISTING CONDITIONS



Subcat



Reach



Pond



Link

Routing Diagram for 2024-12-17 Existing- 081391
Prepared by Bowman Consulting Group, Printed 12/19/2024
HydroCAD® 10.20-5c s/n 09435 © 2023 HydroCAD Software Solutions LLC

Summary for Subcatchment X-1I: XDA-1 (impervious)

Runoff = 14.46 cfs @ 12.16 hrs, Volume= 1.190 af, Depth= 3.12"
 Routed to Link XDA-1 : Existing Drainage Area #1

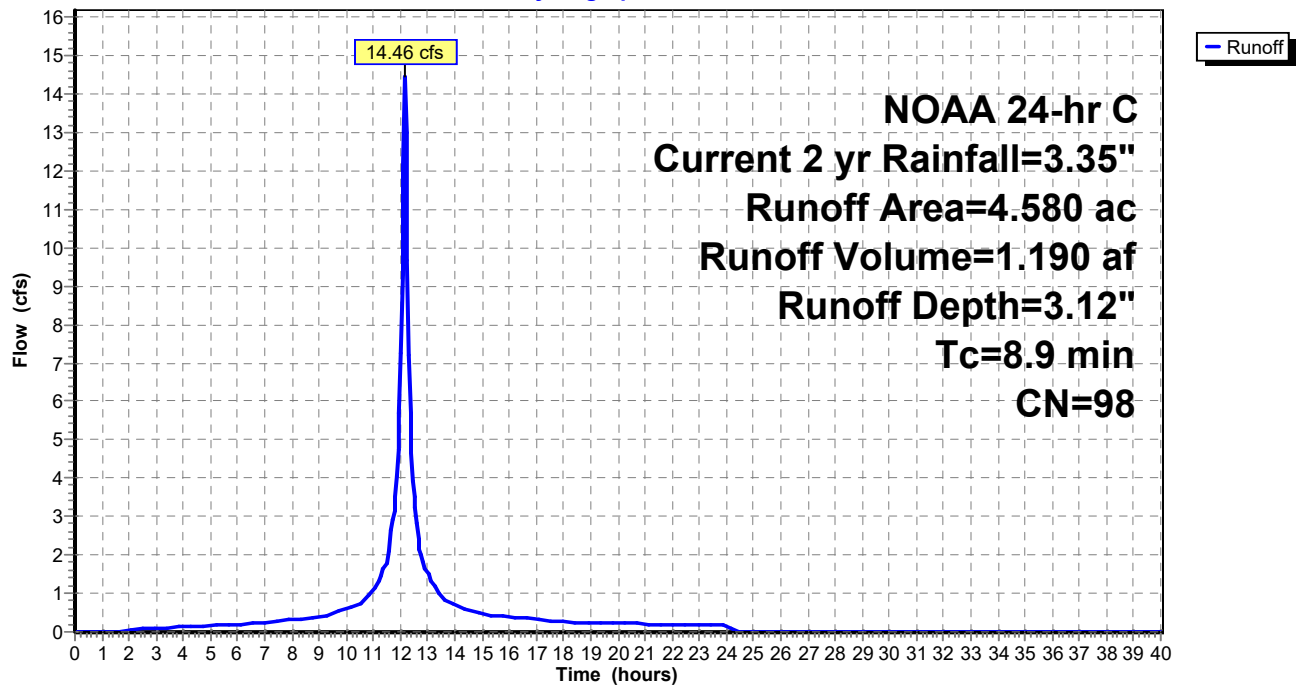
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
* 4.580	98	
4.580		100.00% Impervious Area

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

Subcatchment X-1I: XDA-1 (impervious)

Hydrograph



Summary for Subcatchment X-1P: XDA-1 (pervious)

Runoff = 44.37 cfs @ 12.18 hrs, Volume= 3.707 af, Depth= 0.72"
 Routed to Link XDA-1 : Existing Drainage Area #1

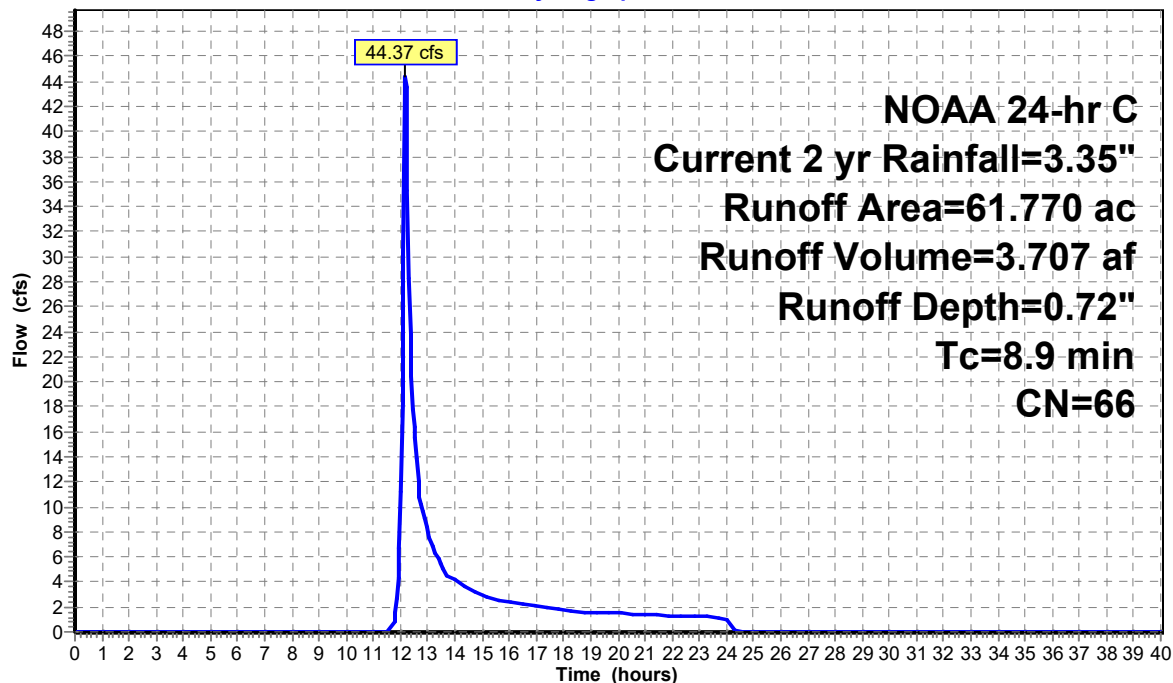
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
3.220	61	>75% Grass cover, Good, HSG B
20.810	55	Woods, Good, HSG B
14.490	70	Woods, Good, HSG C
6.630	77	Woods, Good, HSG D
10.000	71	Row crops, C&T, Good, HSG B
6.300	78	Row crops, C&T, Good, HSG C
0.320	81	Row crops, C&T, Good, HSG D
61.770	66	Weighted Average
61.770		100.00% Pervious Area

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

Subcatchment X-1P: XDA-1 (pervious)

Hydrograph



Summary for Subcatchment X-1S: XDA-1 (pervious)

Runoff = 21.58 cfs @ 12.17 hrs, Volume= 1.714 af, Depth= 0.82"

Routed to Link XDA-1 : Existing Drainage Area #1

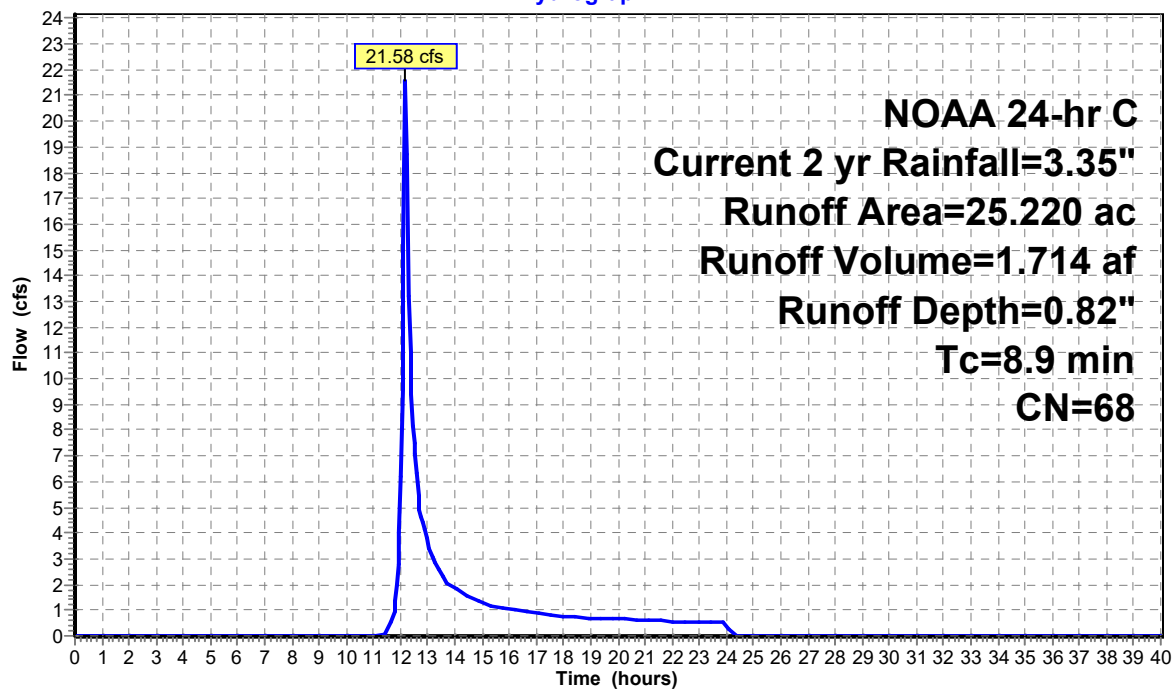
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
3.220	61	>75% Grass cover, Good, HSG B
5.130	55	Woods, Good, HSG B
2.350	70	Woods, Good, HSG C
0.060	77	Woods, Good, HSG D
8.280	71	Row crops, C&T, Good, HSG B
6.020	78	Row crops, C&T, Good, HSG C
0.160	81	Row crops, C&T, Good, HSG D
25.220	68	Weighted Average
25.220		100.00% Pervious Area

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

Subcatchment X-1S: XDA-1 (pervious)

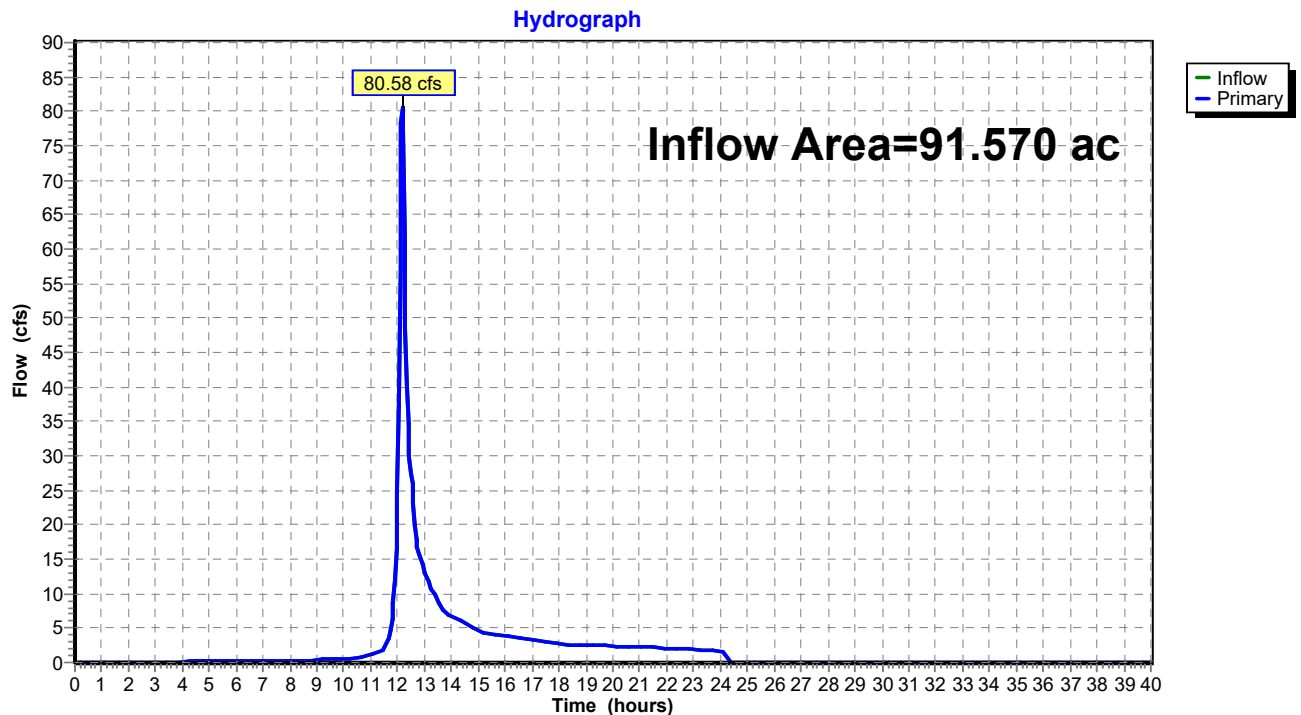
Hydrograph



Summary for Link XDA-1: Existing Drainage Area #1

Inflow Area = 91.570 ac, 5.00% Impervious, Inflow Depth = 0.87" for Current 2 yr event
Inflow = 80.58 cfs @ 12.17 hrs, Volume= 6.611 af
Primary = 80.58 cfs @ 12.17 hrs, Volume= 6.611 af, Atten= 0%, Lag= 0.0 min
Routed to nonexistent node DP-1

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

Link XDA-1: Existing Drainage Area #1

Summary for Subcatchment X-1I: XDA-1 (impervious)

Runoff = 22.03 cfs @ 12.16 hrs, Volume= 1.845 af, Depth= 4.83"
 Routed to Link XDA-1 : Existing Drainage Area #1

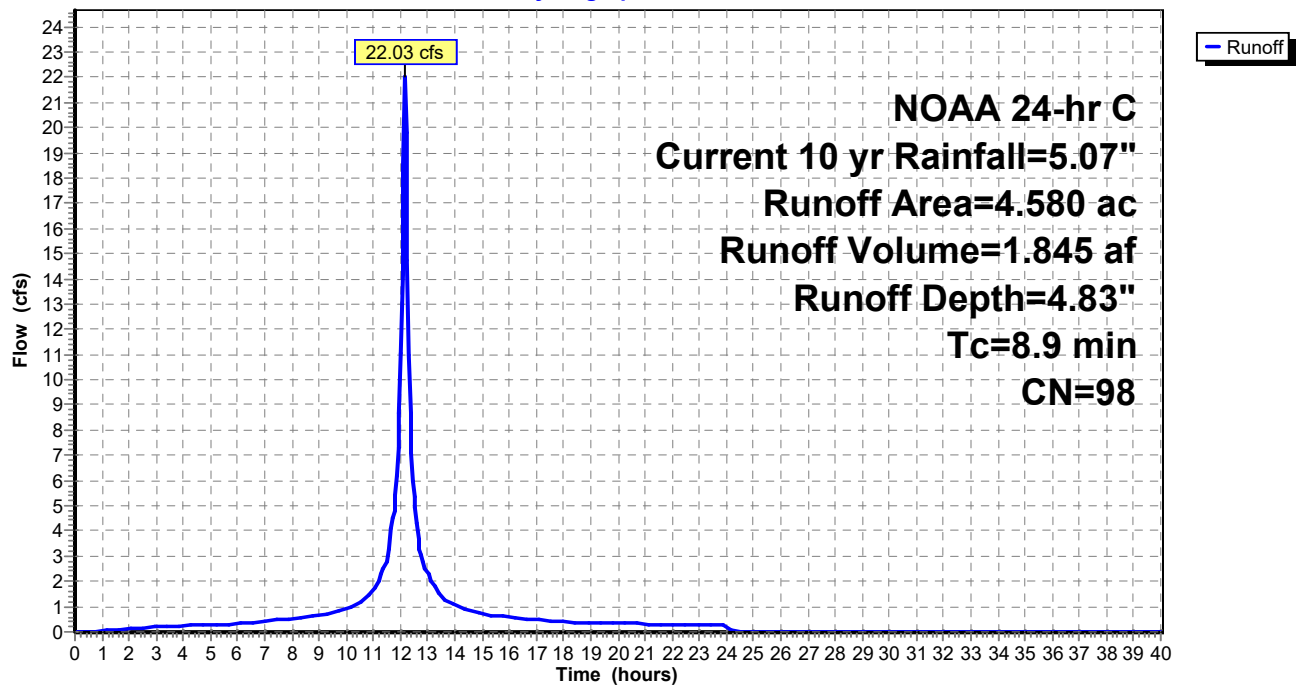
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.07"

Area (ac)	CN	Description
* 4.580	98	
4.580		100.00% Impervious Area

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

Subcatchment X-1I: XDA-1 (impervious)

Hydrograph



Summary for Subcatchment X-1P: XDA-1 (pervious)

Runoff = 123.88 cfs @ 12.17 hrs, Volume= 9.139 af, Depth= 1.78"
 Routed to Link XDA-1 : Existing Drainage Area #1

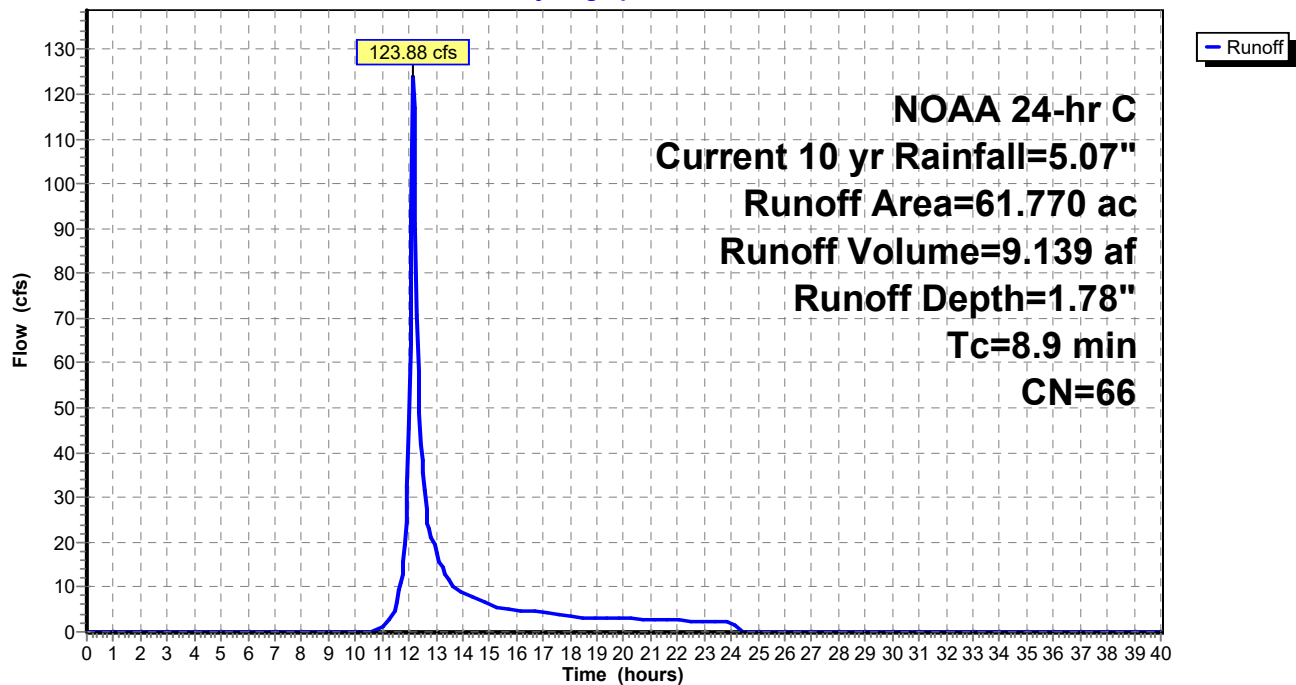
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.07"

Area (ac)	CN	Description
3.220	61	>75% Grass cover, Good, HSG B
20.810	55	Woods, Good, HSG B
14.490	70	Woods, Good, HSG C
6.630	77	Woods, Good, HSG D
10.000	71	Row crops, C&T, Good, HSG B
6.300	78	Row crops, C&T, Good, HSG C
0.320	81	Row crops, C&T, Good, HSG D
61.770	66	Weighted Average
61.770		100.00% Pervious Area

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

Subcatchment X-1P: XDA-1 (pervious)

Hydrograph



Summary for Subcatchment X-1S: XDA-1 (pervious)

Runoff = 55.49 cfs @ 12.17 hrs, Volume= 4.055 af, Depth= 1.93"
Routed to Link XDA-1 : Existing Drainage Area #1

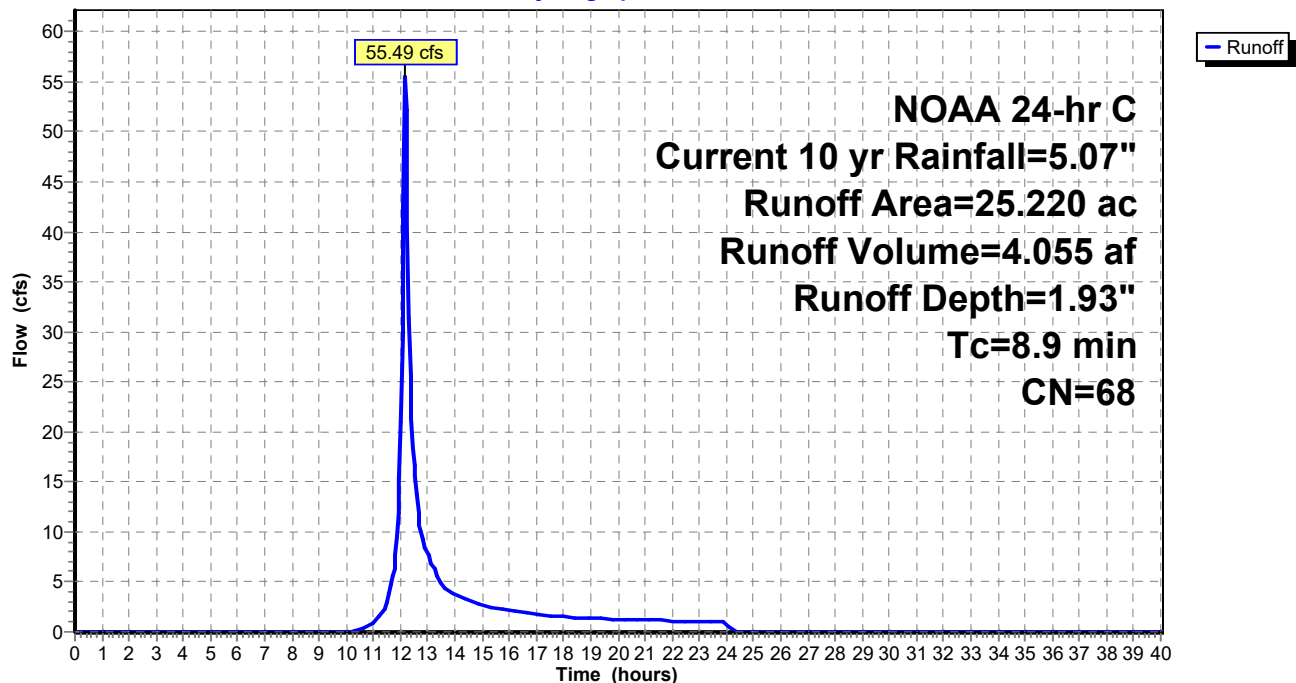
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 10 yr Rainfall=5.07"

Area (ac)	CN	Description
3.220	61	>75% Grass cover, Good, HSG B
5.130	55	Woods, Good, HSG B
2.350	70	Woods, Good, HSG C
0.060	77	Woods, Good, HSG D
8.280	71	Row crops, C&T, Good, HSG B
6.020	78	Row crops, C&T, Good, HSG C
0.160	81	Row crops, C&T, Good, HSG D
25.220	68	Weighted Average
25.220		100.00% Pervious Area

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

Subcatchment X-1S: XDA-1 (pervious)

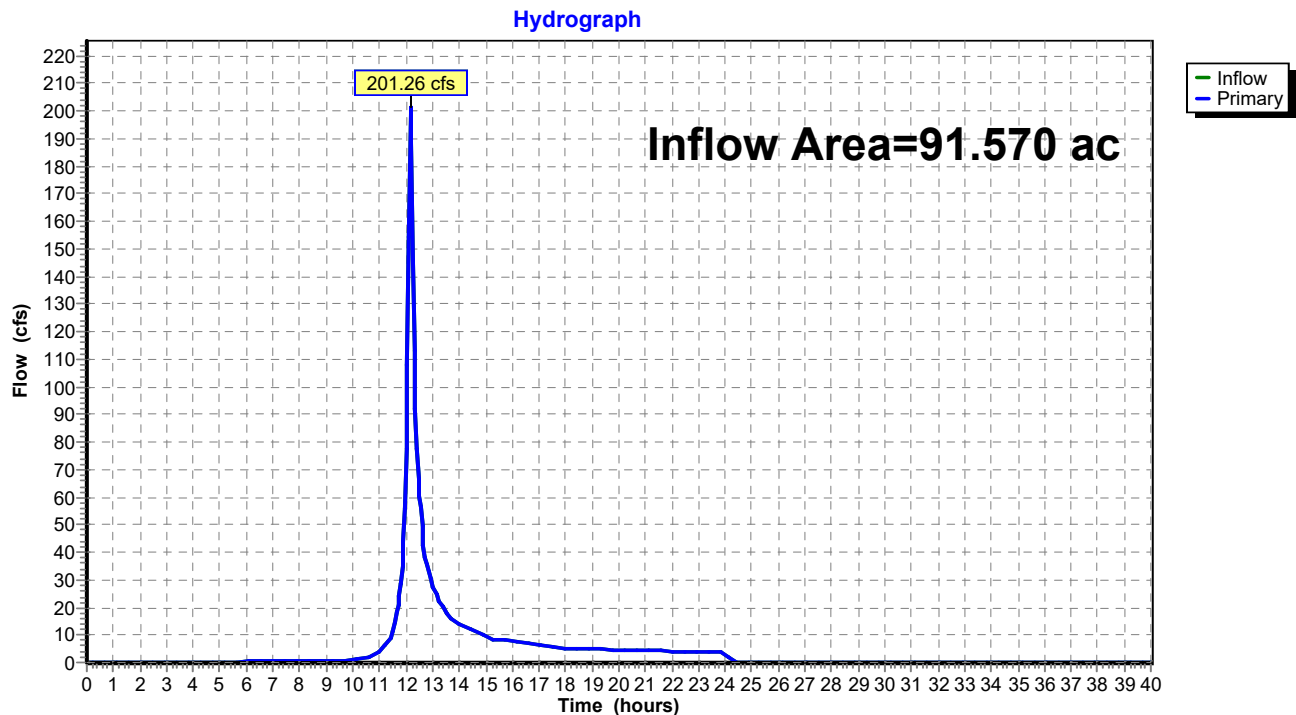
Hydrograph



Summary for Link XDA-1: Existing Drainage Area #1

Inflow Area = 91.570 ac, 5.00% Impervious, Inflow Depth = 1.97" for Current 10 yr event
Inflow = 201.26 cfs @ 12.17 hrs, Volume= 15.039 af
Primary = 201.26 cfs @ 12.17 hrs, Volume= 15.039 af, Atten= 0%, Lag= 0.0 min
Routed to nonexistent node DP-1

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

Link XDA-1: Existing Drainage Area #1

Summary for Subcatchment X-1I: XDA-1 (impervious)

Runoff = 36.79 cfs @ 12.16 hrs, Volume= 3.130 af, Depth= 8.20"
 Routed to Link XDA-1 : Existing Drainage Area #1

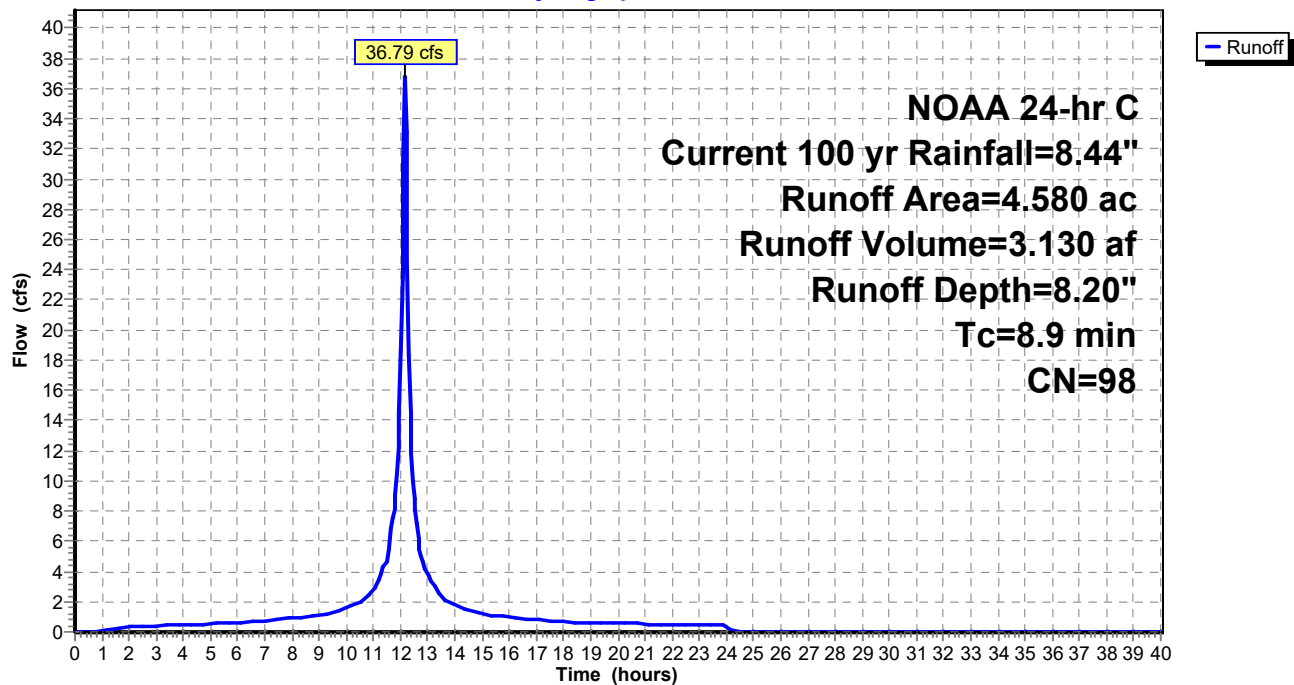
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 100 yr Rainfall=8.44"

Area (ac)	CN	Description
* 4.580	98	
4.580		100.00% Impervious Area

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

Subcatchment X-1I: XDA-1 (impervious)

Hydrograph



Summary for Subcatchment X-1P: XDA-1 (pervious)

Runoff = 312.41 cfs @ 12.16 hrs, Volume= 22.499 af, Depth= 4.37"

Routed to Link XDA-1 : Existing Drainage Area #1

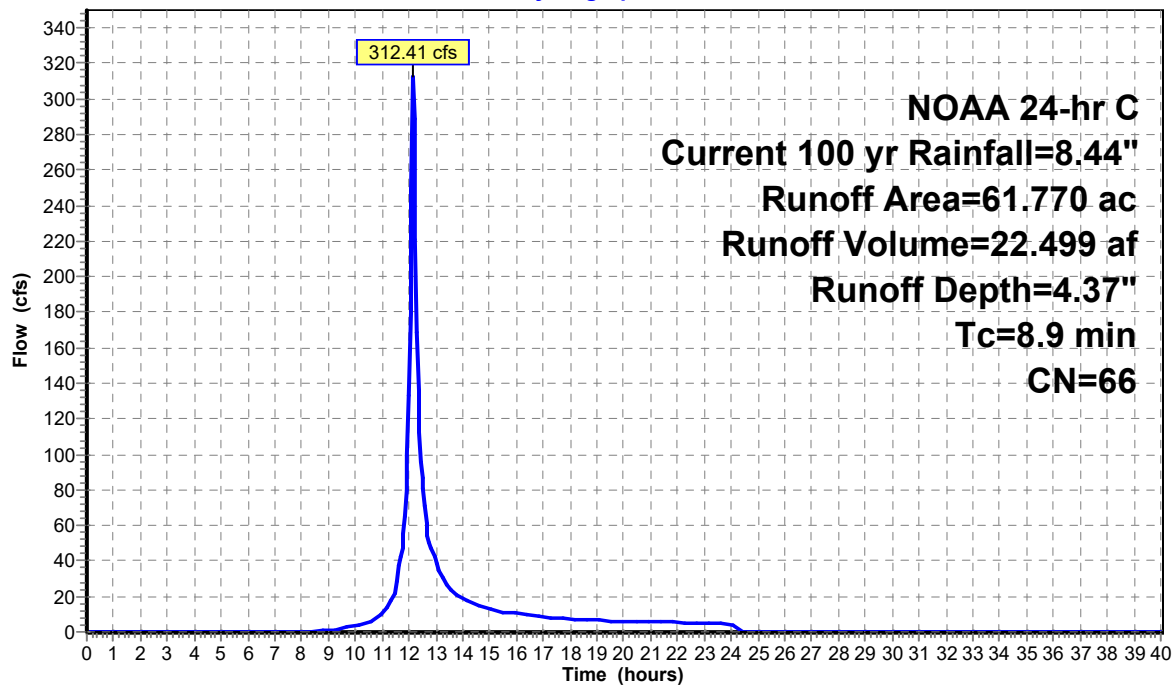
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 100 yr Rainfall=8.44"

Area (ac)	CN	Description
3.220	61	>75% Grass cover, Good, HSG B
20.810	55	Woods, Good, HSG B
14.490	70	Woods, Good, HSG C
6.630	77	Woods, Good, HSG D
10.000	71	Row crops, C&T, Good, HSG B
6.300	78	Row crops, C&T, Good, HSG C
0.320	81	Row crops, C&T, Good, HSG D
61.770	66	Weighted Average
61.770		100.00% Pervious Area

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

Subcatchment X-1P: XDA-1 (pervious)

Hydrograph



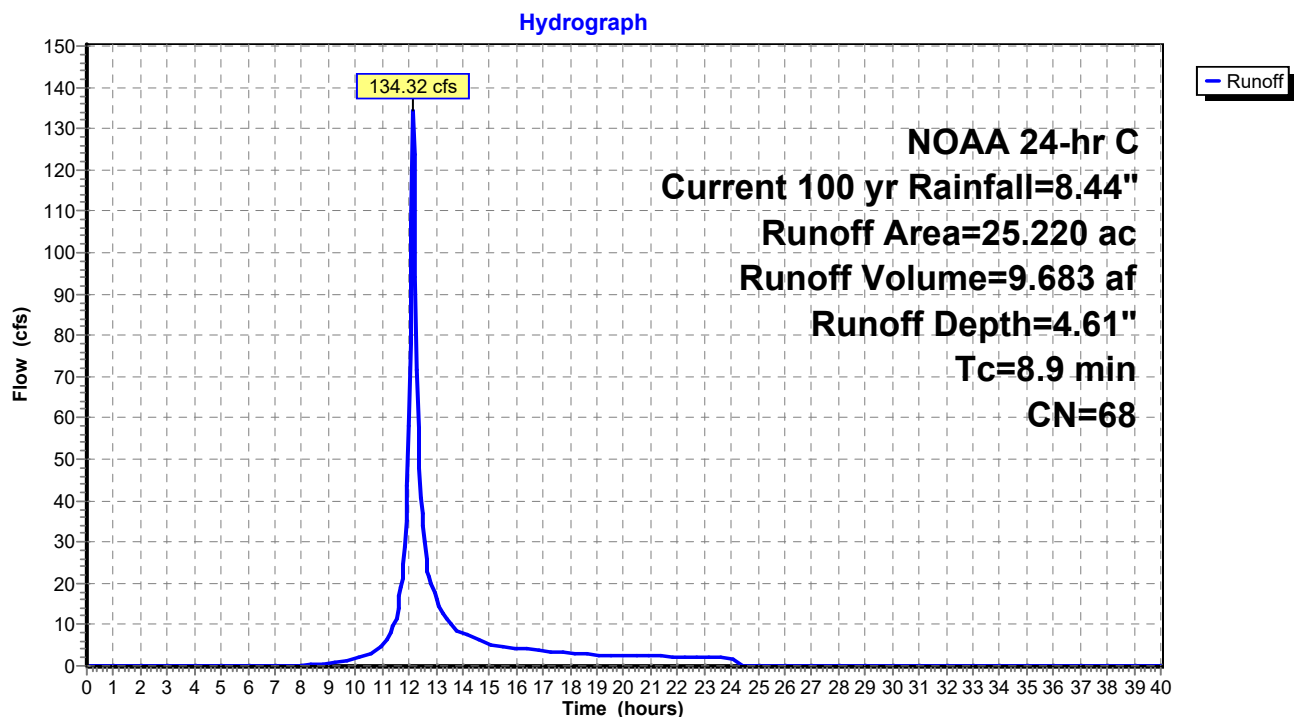
Summary for Subcatchment X-1S: XDA-1 (pervious)

Runoff = 134.32 cfs @ 12.16 hrs, Volume= 9.683 af, Depth= 4.61"
 Routed to Link XDA-1 : Existing Drainage Area #1

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 100 yr Rainfall=8.44"

Area (ac)	CN	Description
3.220	61	>75% Grass cover, Good, HSG B
5.130	55	Woods, Good, HSG B
2.350	70	Woods, Good, HSG C
0.060	77	Woods, Good, HSG D
8.280	71	Row crops, C&T, Good, HSG B
6.020	78	Row crops, C&T, Good, HSG C
0.160	81	Row crops, C&T, Good, HSG D
25.220	68	Weighted Average
25.220		100.00% Pervious Area

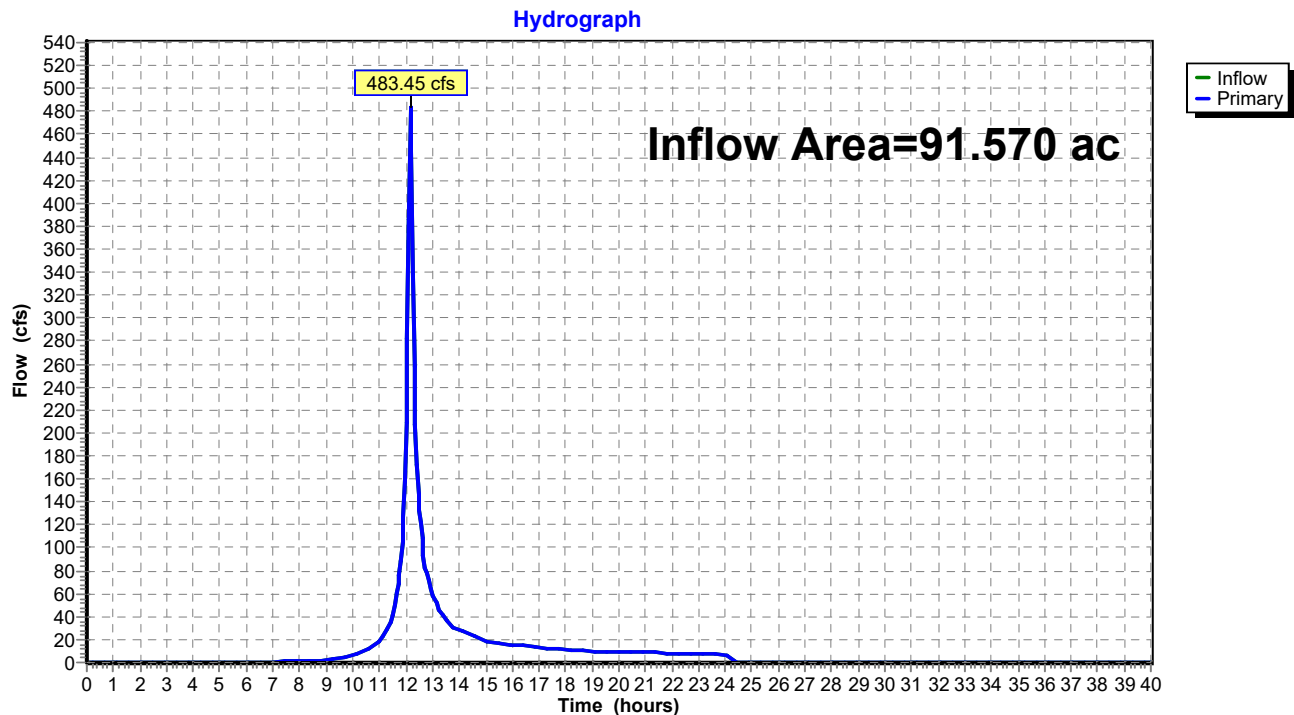
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.9					Direct Entry,

Subcatchment X-1S: XDA-1 (pervious)

Summary for Link XDA-1: Existing Drainage Area #1

Inflow Area = 91.570 ac, 5.00% Impervious, Inflow Depth = 4.63" for Current 100 yr event
Inflow = 483.45 cfs @ 12.16 hrs, Volume= 35.312 af
Primary = 483.45 cfs @ 12.16 hrs, Volume= 35.312 af, Atten= 0%, Lag= 0.0 min
Routed to nonexistent node DP-1

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

Link XDA-1: Existing Drainage Area #1

Summary for Subcatchment X-1I: XDA-1 (impervious)

Runoff = 16.66 cfs @ 12.16 hrs, Volume= 1.380 af, Depth= 3.62"
 Routed to Link XDA-1 : Existing Drainage Area #1

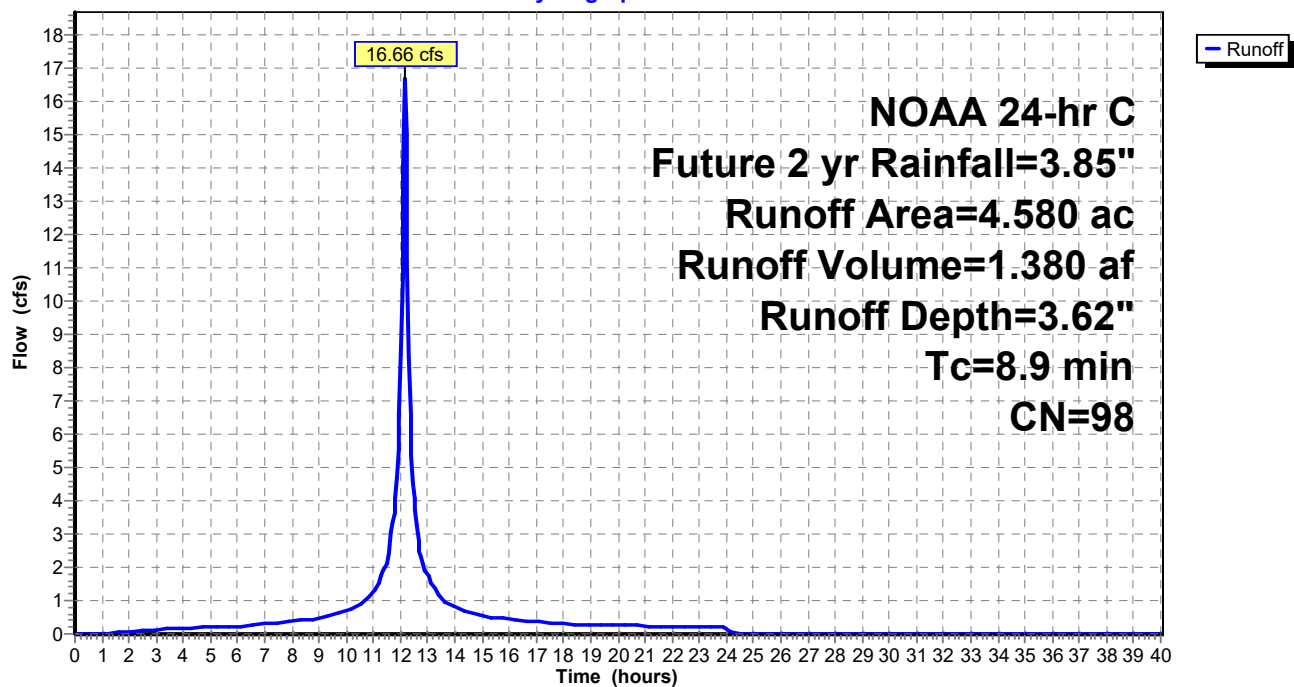
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 2 yr Rainfall=3.85"

Area (ac)	CN	Description
* 4.580	98	
4.580		100.00% Impervious Area

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

Subcatchment X-1I: XDA-1 (impervious)

Hydrograph



Summary for Subcatchment X-1P: XDA-1 (pervious)

Runoff = 65.74 cfs @ 12.17 hrs, Volume= 5.134 af, Depth= 1.00"
Routed to Link XDA-1 : Existing Drainage Area #1

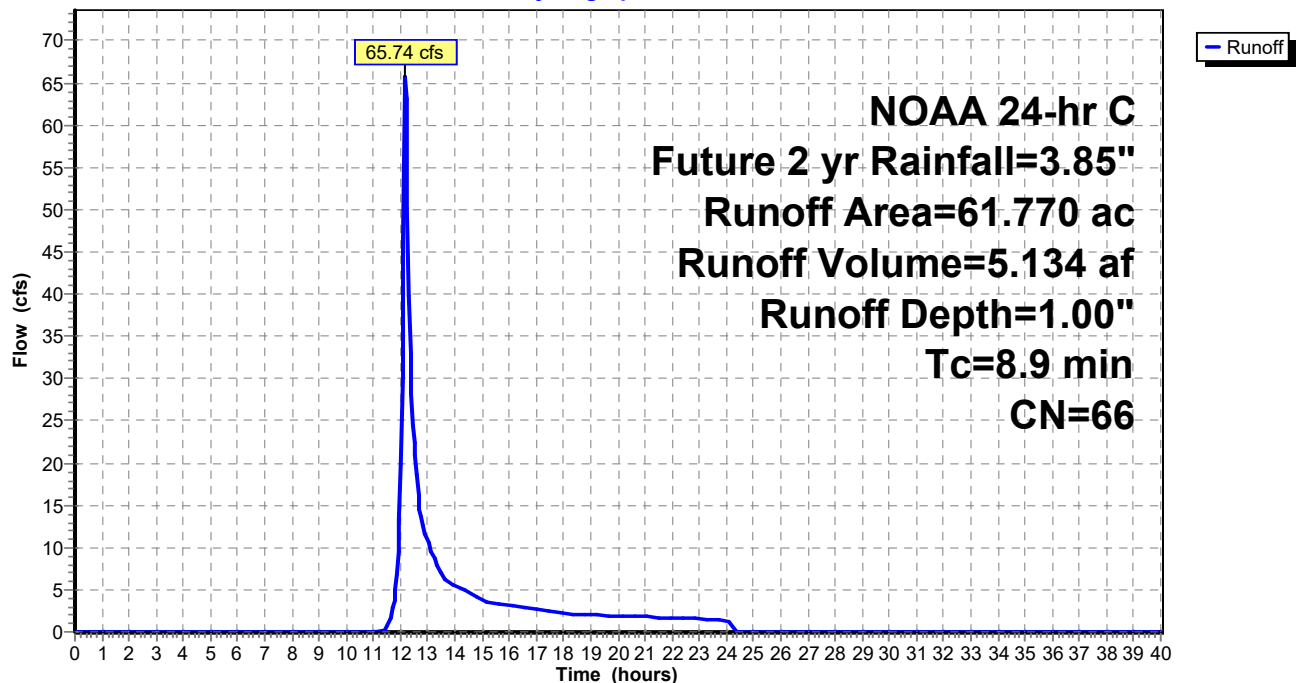
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 2 yr Rainfall=3.85"

Area (ac)	CN	Description
3.220	61	>75% Grass cover, Good, HSG B
20.810	55	Woods, Good, HSG B
14.490	70	Woods, Good, HSG C
6.630	77	Woods, Good, HSG D
10.000	71	Row crops, C&T, Good, HSG B
6.300	78	Row crops, C&T, Good, HSG C
0.320	81	Row crops, C&T, Good, HSG D
61.770	66	Weighted Average
61.770		100.00% Pervious Area

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

Subcatchment X-1P: XDA-1 (pervious)

Hydrograph



Summary for Subcatchment X-1S: XDA-1 (pervious)

Runoff = 30.65 cfs @ 12.17 hrs, Volume= 2.335 af, Depth= 1.11"
Routed to Link XDA-1 : Existing Drainage Area #1

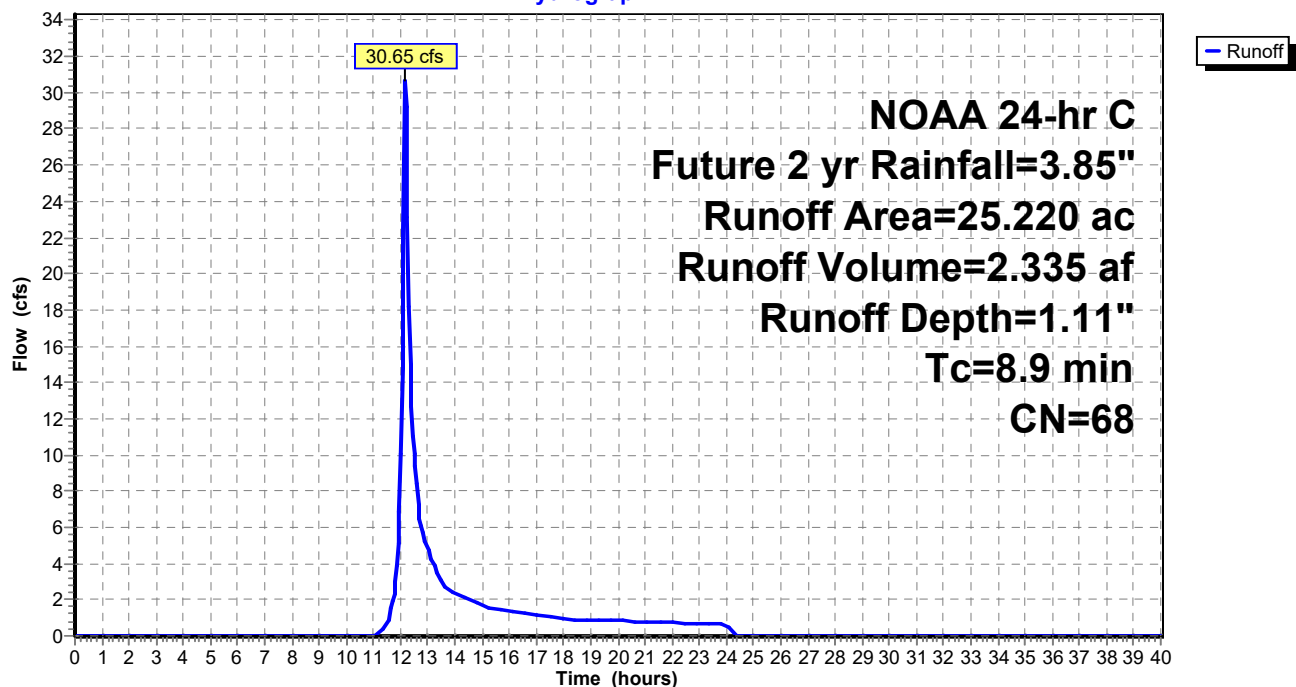
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 2 yr Rainfall=3.85"

Area (ac)	CN	Description
3.220	61	>75% Grass cover, Good, HSG B
5.130	55	Woods, Good, HSG B
2.350	70	Woods, Good, HSG C
0.060	77	Woods, Good, HSG D
8.280	71	Row crops, C&T, Good, HSG B
6.020	78	Row crops, C&T, Good, HSG C
0.160	81	Row crops, C&T, Good, HSG D
25.220	68	Weighted Average
25.220		100.00% Pervious Area

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

Subcatchment X-1S: XDA-1 (pervious)

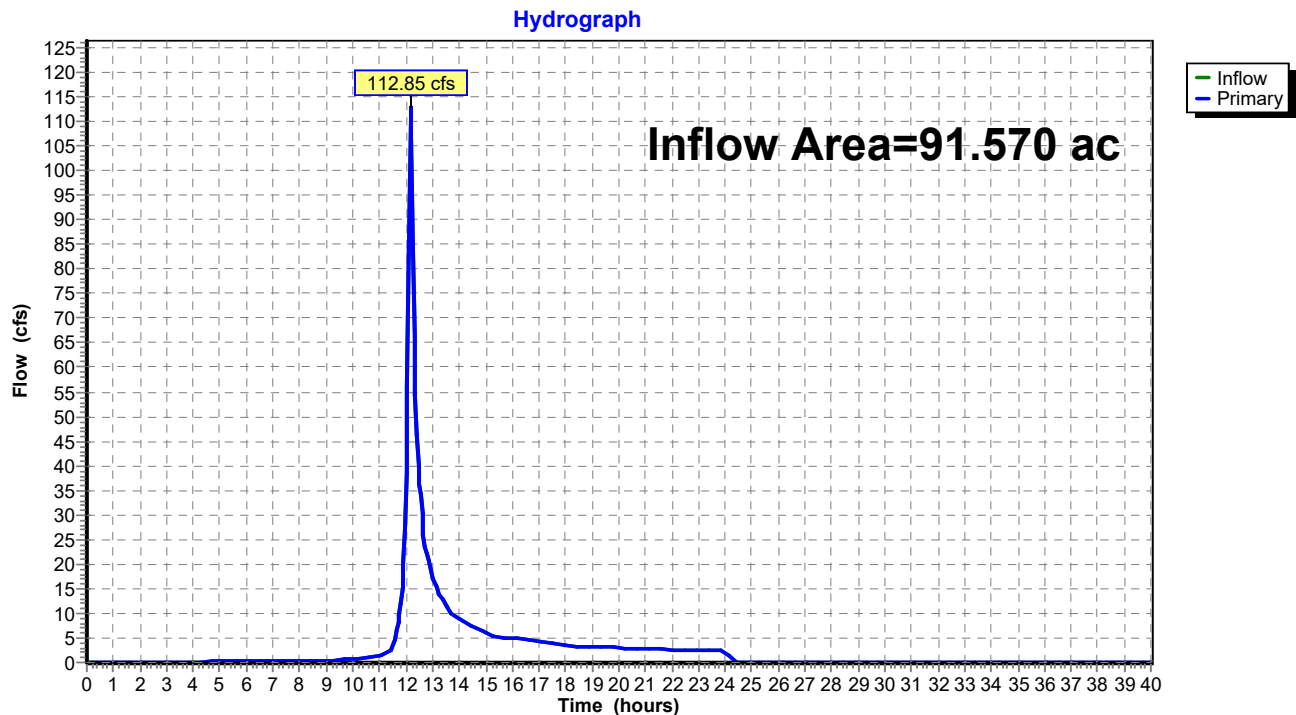
Hydrograph



Summary for Link XDA-1: Existing Drainage Area #1

Inflow Area = 91.570 ac, 5.00% Impervious, Inflow Depth = 1.16" for Future 2 yr event
Inflow = 112.85 cfs @ 12.17 hrs, Volume= 8.849 af
Primary = 112.85 cfs @ 12.17 hrs, Volume= 8.849 af, Atten= 0%, Lag= 0.0 min
Routed to nonexistent node DP-1

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

Link XDA-1: Existing Drainage Area #1

Summary for Subcatchment X-1I: XDA-1 (impervious)

Runoff = 25.27 cfs @ 12.16 hrs, Volume= 2.127 af, Depth= 5.57"
 Routed to Link XDA-1 : Existing Drainage Area #1

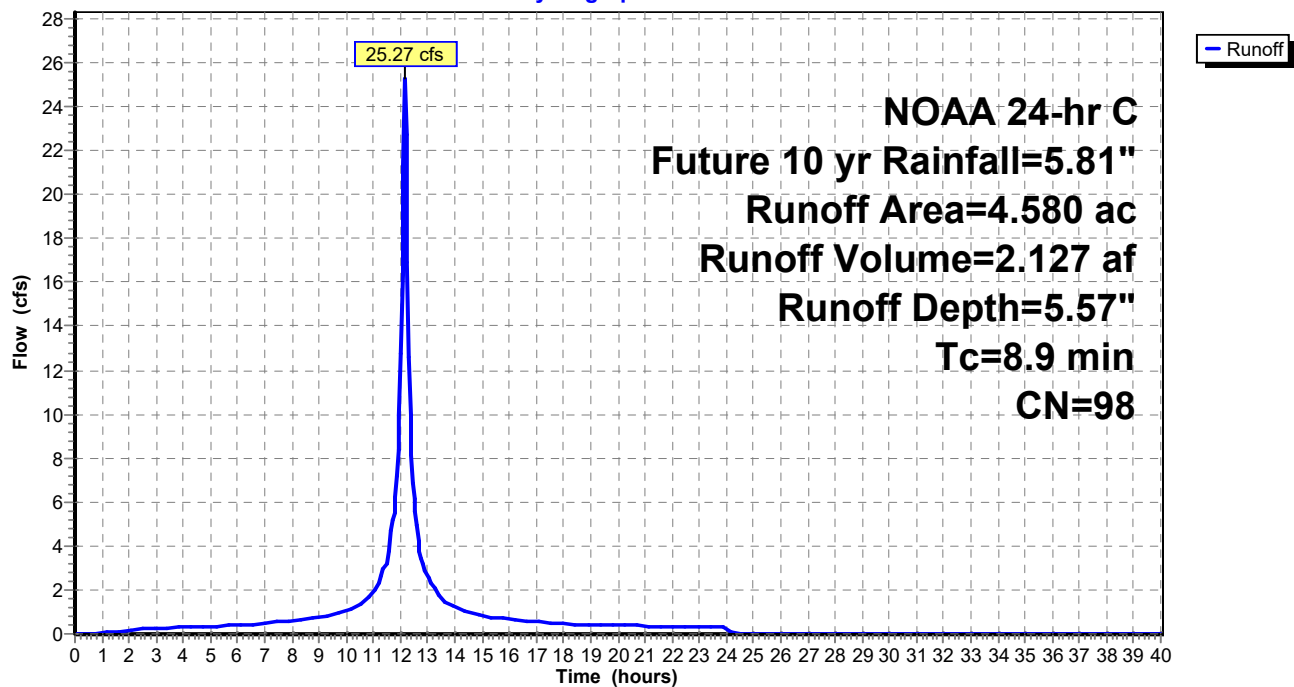
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 10 yr Rainfall=5.81"

Area (ac)	CN	Description
* 4.580	98	
4.580		100.00% Impervious Area

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

Subcatchment X-1I: XDA-1 (impervious)

Hydrograph



Summary for Subcatchment X-1P: XDA-1 (pervious)

Runoff = 162.64 cfs @ 12.17 hrs, Volume= 11.841 af, Depth= 2.30"

Routed to Link XDA-1 : Existing Drainage Area #1

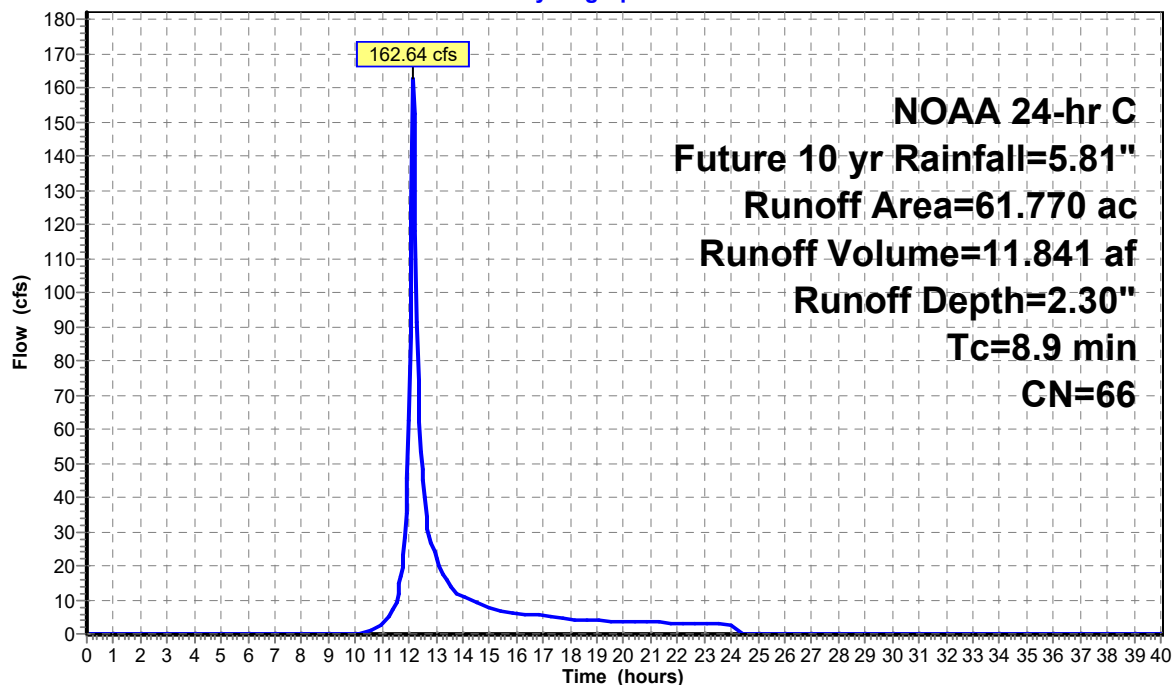
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 10 yr Rainfall=5.81"

Area (ac)	CN	Description
3.220	61	>75% Grass cover, Good, HSG B
20.810	55	Woods, Good, HSG B
14.490	70	Woods, Good, HSG C
6.630	77	Woods, Good, HSG D
10.000	71	Row crops, C&T, Good, HSG B
6.300	78	Row crops, C&T, Good, HSG C
0.320	81	Row crops, C&T, Good, HSG D
61.770	66	Weighted Average
61.770		100.00% Pervious Area

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

Subcatchment X-1P: XDA-1 (pervious)

Hydrograph



Summary for Subcatchment X-1S: XDA-1 (pervious)

Runoff = 71.86 cfs @ 12.16 hrs, Volume= 5.203 af, Depth= 2.48"

Routed to Link XDA-1 : Existing Drainage Area #1

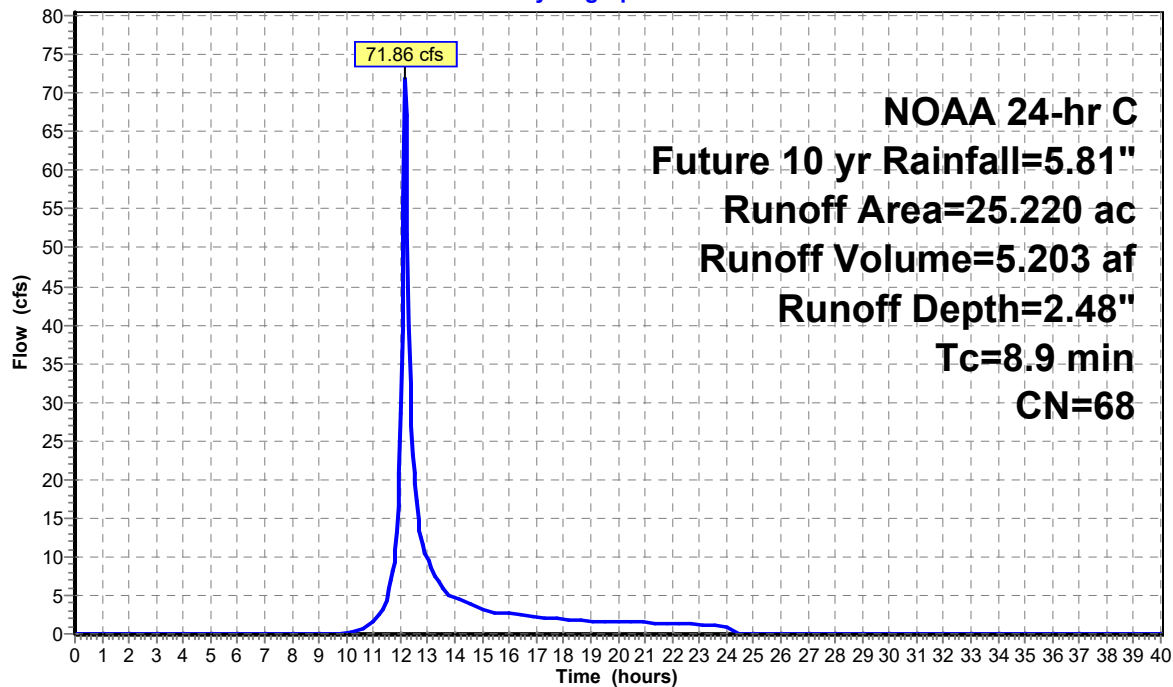
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 10 yr Rainfall=5.81"

Area (ac)	CN	Description
3.220	61	>75% Grass cover, Good, HSG B
5.130	55	Woods, Good, HSG B
2.350	70	Woods, Good, HSG C
0.060	77	Woods, Good, HSG D
8.280	71	Row crops, C&T, Good, HSG B
6.020	78	Row crops, C&T, Good, HSG C
0.160	81	Row crops, C&T, Good, HSG D
25.220	68	Weighted Average
25.220		100.00% Pervious Area

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

Subcatchment X-1S: XDA-1 (pervious)

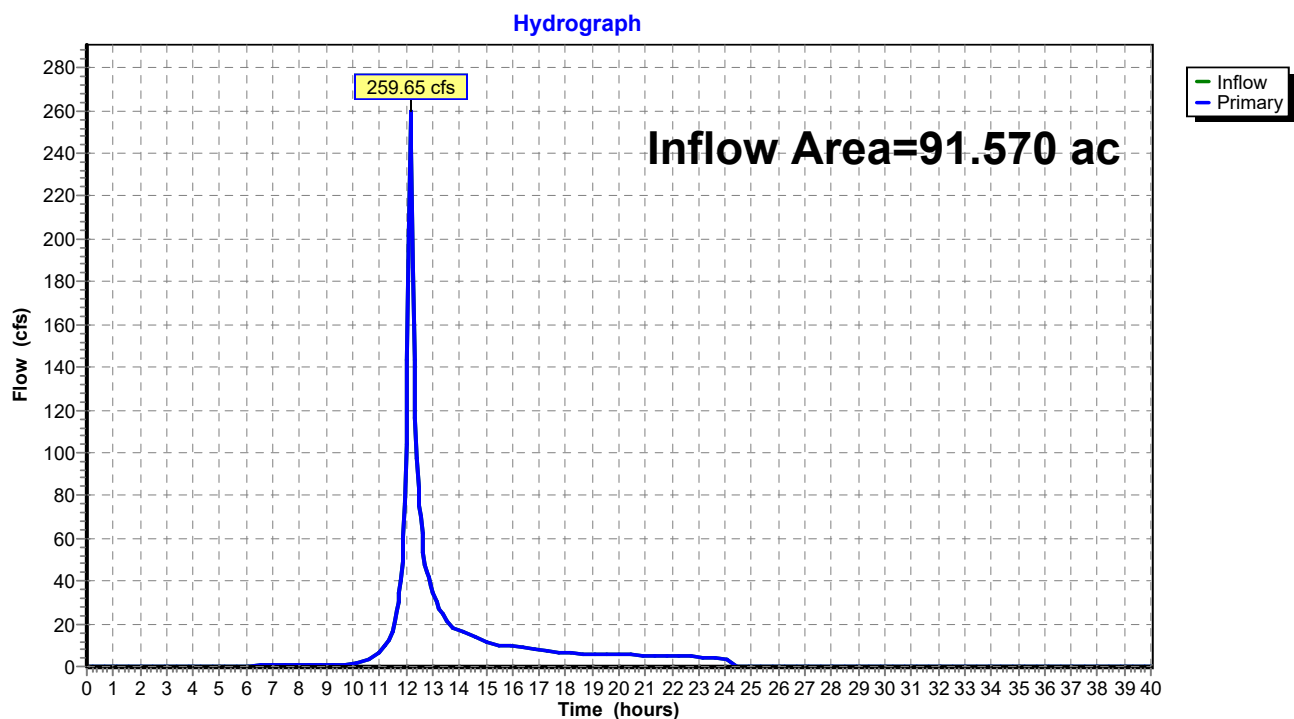
Hydrograph



Summary for Link XDA-1: Existing Drainage Area #1

Inflow Area = 91.570 ac, 5.00% Impervious, Inflow Depth = 2.51" for Future 10 yr event
Inflow = 259.65 cfs @ 12.16 hrs, Volume= 19.171 af
Primary = 259.65 cfs @ 12.16 hrs, Volume= 19.171 af, Atten= 0%, Lag= 0.0 min
Routed to nonexistent node DP-1

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

Link XDA-1: Existing Drainage Area #1

Summary for Subcatchment X-1I: XDA-1 (impervious)

Runoff = 48.17 cfs @ 12.16 hrs, Volume= 4.122 af, Depth=10.80"

Routed to Link XDA-1 : Existing Drainage Area #1

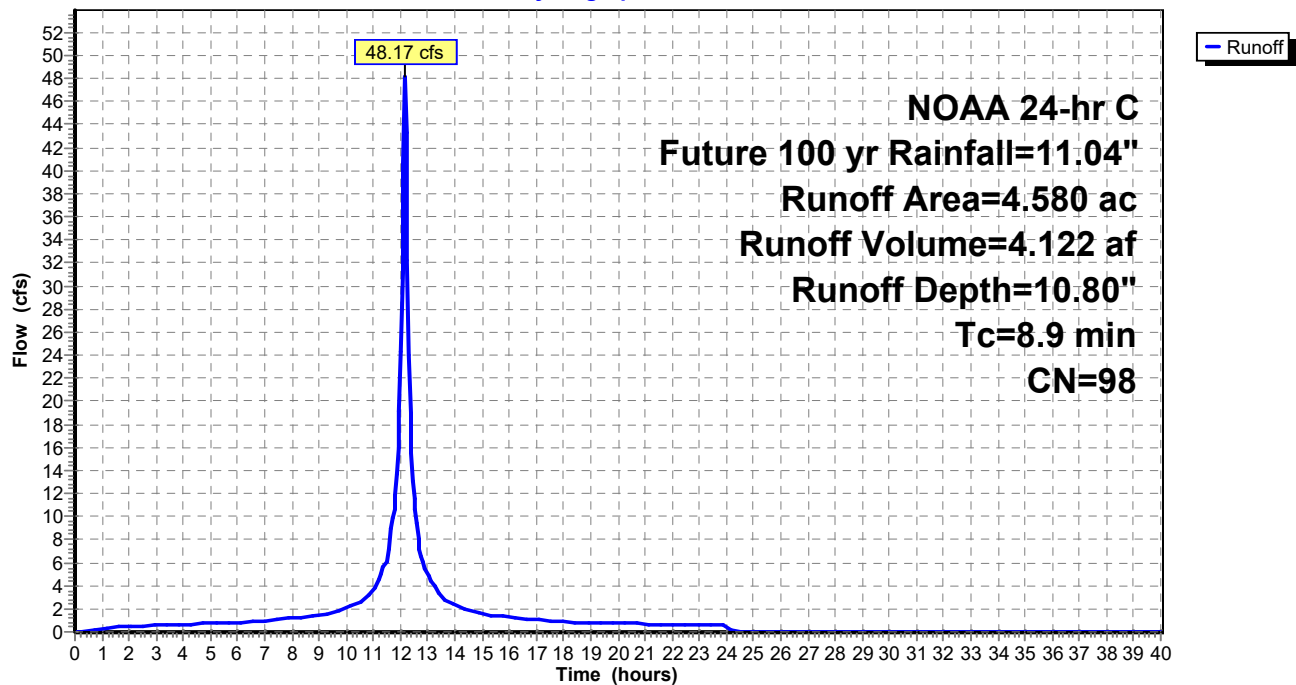
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 100 yr Rainfall=11.04"

Area (ac)	CN	Description
* 4.580	98	
4.580		100.00% Impervious Area

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

Subcatchment X-1I: XDA-1 (impervious)

Hydrograph



Summary for Subcatchment X-1P: XDA-1 (pervious)

Runoff = 469.65 cfs @ 12.16 hrs, Volume= 34.018 af, Depth= 6.61"

Routed to Link XDA-1 : Existing Drainage Area #1

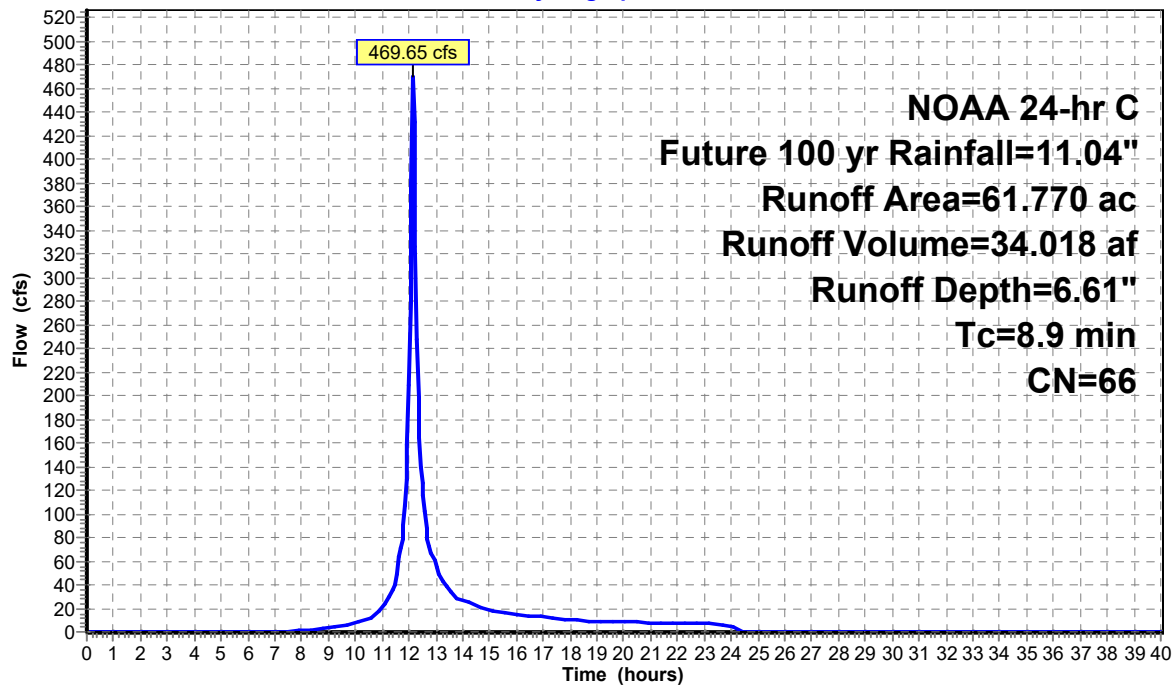
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 100 yr Rainfall=11.04"

Area (ac)	CN	Description
3.220	61	>75% Grass cover, Good, HSG B
20.810	55	Woods, Good, HSG B
14.490	70	Woods, Good, HSG C
6.630	77	Woods, Good, HSG D
10.000	71	Row crops, C&T, Good, HSG B
6.300	78	Row crops, C&T, Good, HSG C
0.320	81	Row crops, C&T, Good, HSG D
61.770	66	Weighted Average
61.770		100.00% Pervious Area

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

Subcatchment X-1P: XDA-1 (pervious)

Hydrograph



Summary for Subcatchment X-1S: XDA-1 (pervious)

Runoff = 199.17 cfs @ 12.16 hrs, Volume= 14.478 af, Depth= 6.89"

Routed to Link XDA-1 : Existing Drainage Area #1

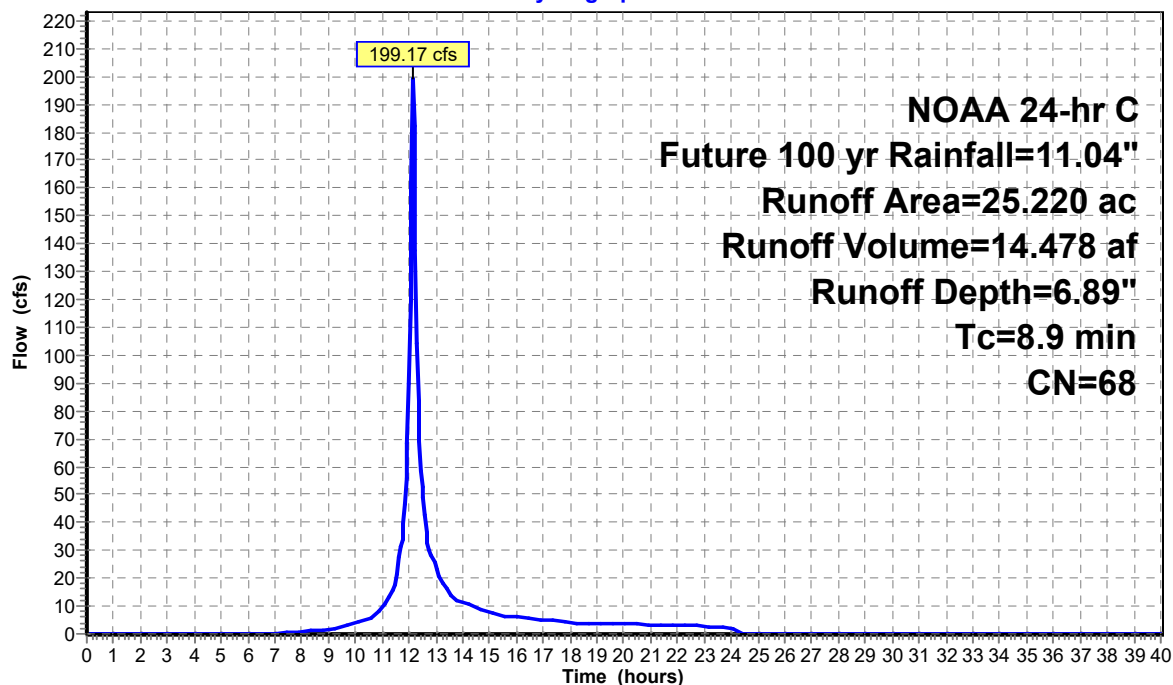
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 100 yr Rainfall=11.04"

Area (ac)	CN	Description
3.220	61	>75% Grass cover, Good, HSG B
5.130	55	Woods, Good, HSG B
2.350	70	Woods, Good, HSG C
0.060	77	Woods, Good, HSG D
8.280	71	Row crops, C&T, Good, HSG B
6.020	78	Row crops, C&T, Good, HSG C
0.160	81	Row crops, C&T, Good, HSG D
25.220	68	Weighted Average
25.220		100.00% Pervious Area

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

Subcatchment X-1S: XDA-1 (pervious)

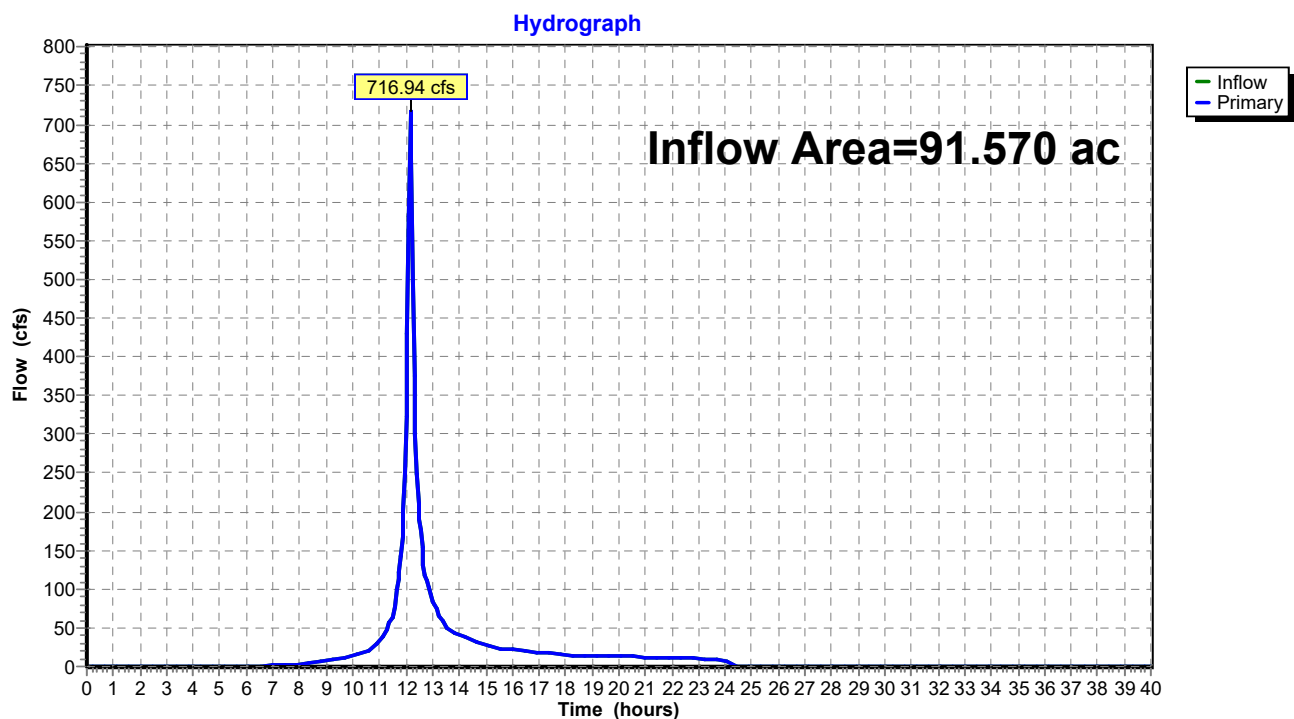
Hydrograph



Summary for Link XDA-1: Existing Drainage Area #1

Inflow Area = 91.570 ac, 5.00% Impervious, Inflow Depth = 6.90" for Future 100 yr event
Inflow = 716.94 cfs @ 12.16 hrs, Volume= 52.617 af
Primary = 716.94 cfs @ 12.16 hrs, Volume= 52.617 af, Atten= 0%, Lag= 0.0 min
Routed to nonexistent node DP-1

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

Link XDA-1: Existing Drainage Area #1

Summary for Subcatchment X-1I: XDA-1 (impervious)

Runoff = 14.33 cfs @ 12.16 hrs, Volume= 1.178 af, Depth= 3.09"
 Routed to Link XDA-1 : Existing Drainage Area #1

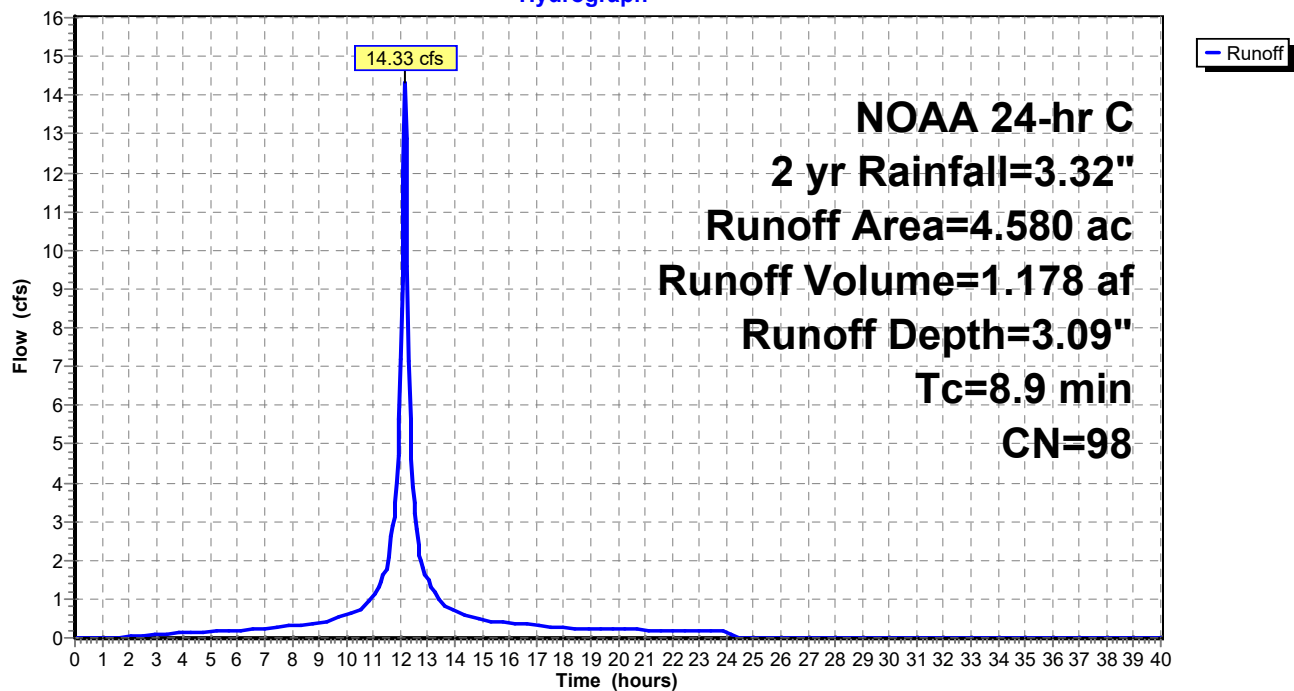
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C 2 yr Rainfall=3.32"

Area (ac)	CN	Description
* 4.580	98	
4.580		100.00% Impervious Area

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

Subcatchment X-1I: XDA-1 (impervious)

Hydrograph



Summary for Subcatchment X-1P: XDA-1 (pervious)

Runoff = 43.20 cfs @ 12.18 hrs, Volume= 3.627 af, Depth= 0.70"
Routed to Link XDA-1 : Existing Drainage Area #1

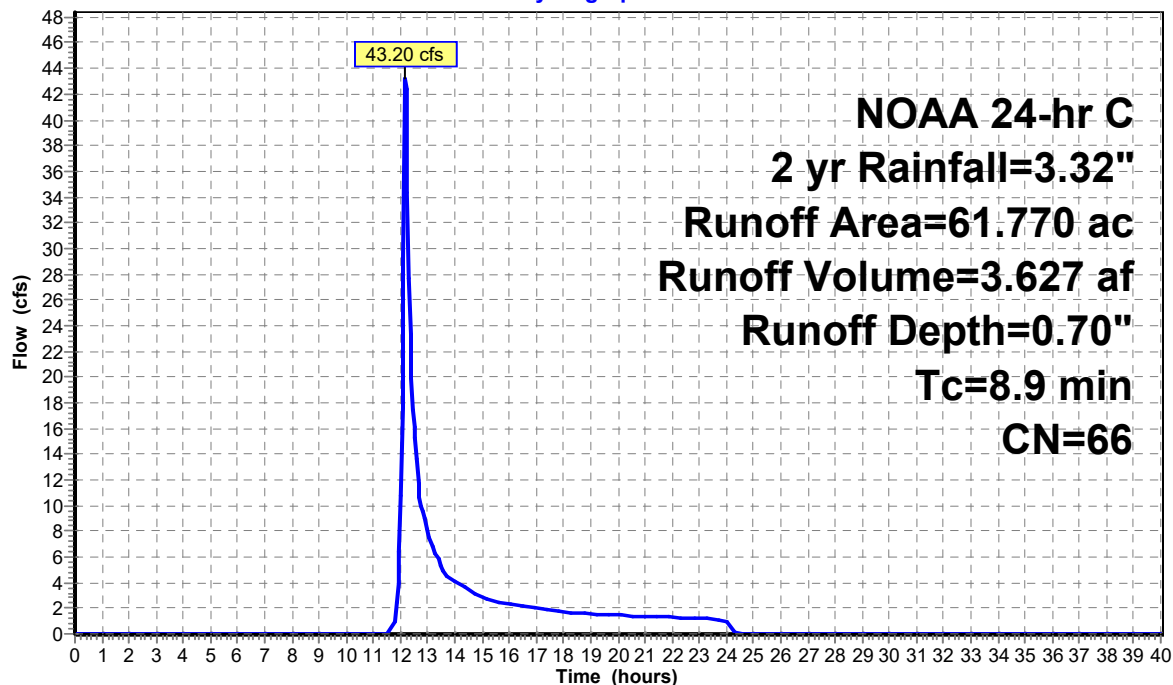
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C 2 yr Rainfall=3.32"

Area (ac)	CN	Description
3.220	61	>75% Grass cover, Good, HSG B
20.810	55	Woods, Good, HSG B
14.490	70	Woods, Good, HSG C
6.630	77	Woods, Good, HSG D
10.000	71	Row crops, C&T, Good, HSG B
6.300	78	Row crops, C&T, Good, HSG C
0.320	81	Row crops, C&T, Good, HSG D
61.770	66	Weighted Average
61.770		100.00% Pervious Area

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

Subcatchment X-1P: XDA-1 (pervious)

Hydrograph



Summary for Subcatchment X-1S: XDA-1 (pervious)

Runoff = 21.06 cfs @ 12.17 hrs, Volume= 1.679 af, Depth= 0.80"

Routed to Link XDA-1 : Existing Drainage Area #1

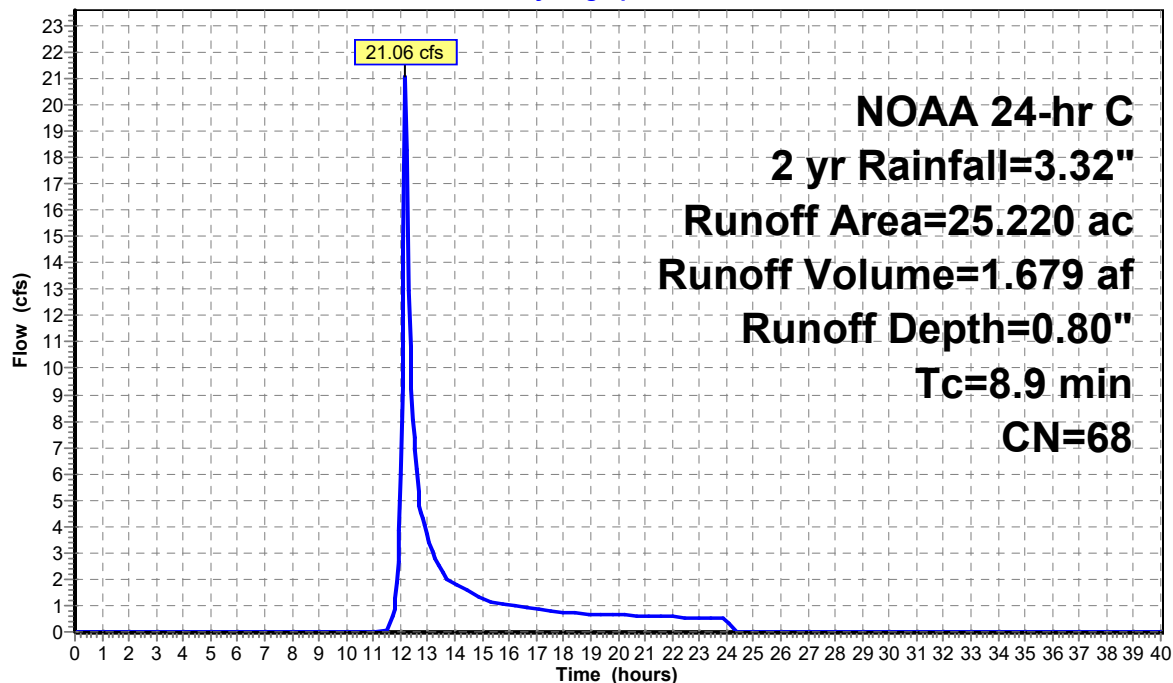
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C 2 yr Rainfall=3.32"

Area (ac)	CN	Description
3.220	61	>75% Grass cover, Good, HSG B
5.130	55	Woods, Good, HSG B
2.350	70	Woods, Good, HSG C
0.060	77	Woods, Good, HSG D
8.280	71	Row crops, C&T, Good, HSG B
6.020	78	Row crops, C&T, Good, HSG C
0.160	81	Row crops, C&T, Good, HSG D
25.220	68	Weighted Average
25.220		100.00% Pervious Area

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

Subcatchment X-1S: XDA-1 (pervious)

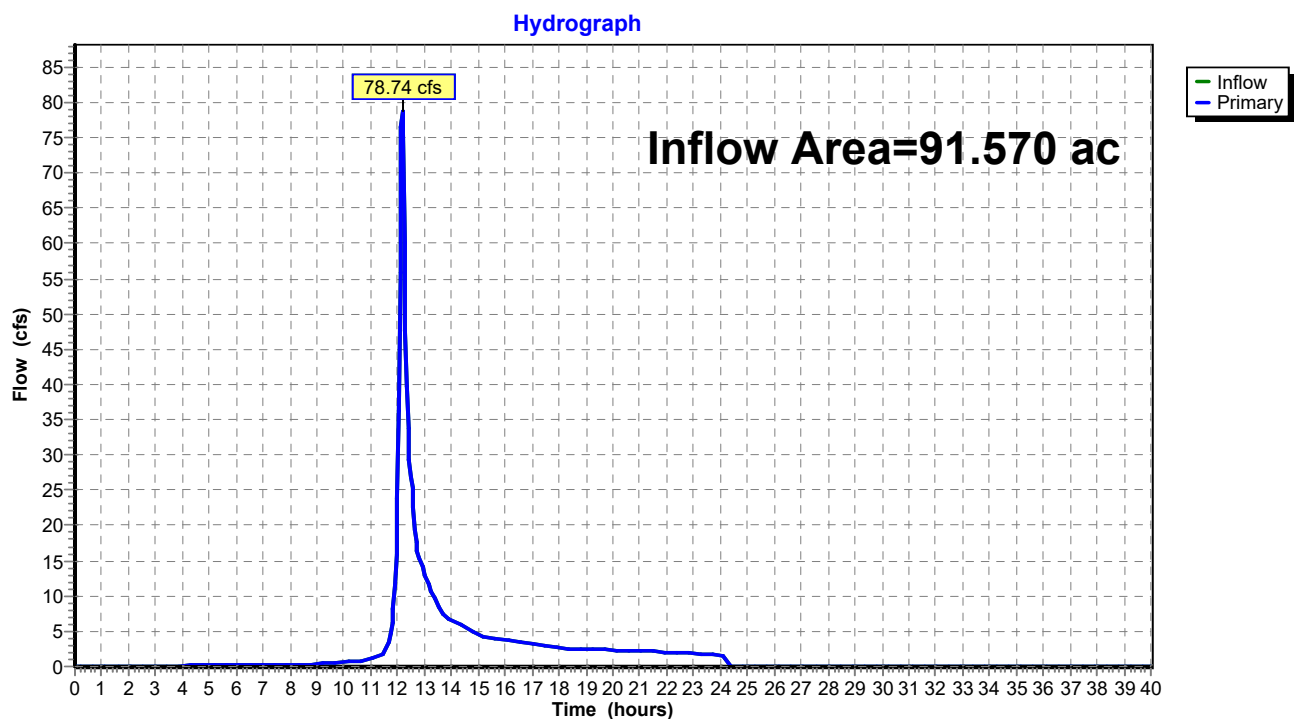
Hydrograph



Summary for Link XDA-1: Existing Drainage Area #1

Inflow Area = 91.570 ac, 5.00% Impervious, Inflow Depth = 0.85" for 2 yr event
Inflow = 78.74 cfs @ 12.17 hrs, Volume= 6.484 af
Primary = 78.74 cfs @ 12.17 hrs, Volume= 6.484 af, Atten= 0%, Lag= 0.0 min
Routed to nonexistent node DP-1

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

Link XDA-1: Existing Drainage Area #1

Summary for Subcatchment X-1I: XDA-1 (impervious)

Runoff = 21.72 cfs @ 12.16 hrs, Volume= 1.818 af, Depth= 4.76"
Routed to Link XDA-1 : Existing Drainage Area #1

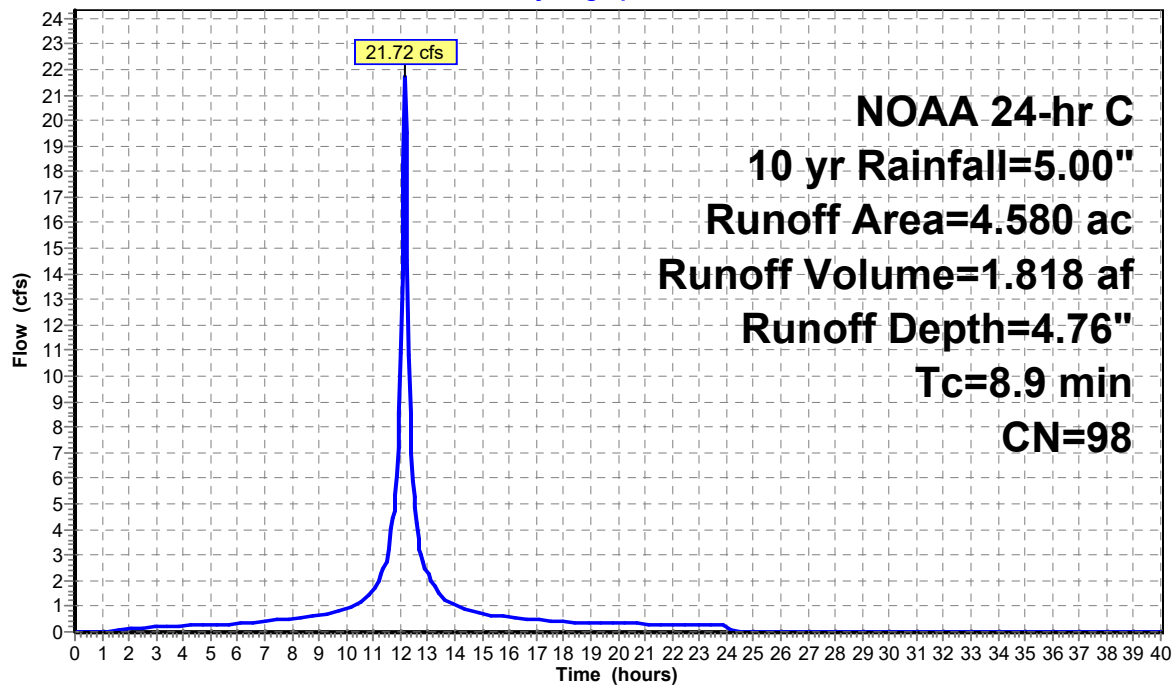
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C 10 yr Rainfall=5.00"

Area (ac)	CN	Description
* 4.580	98	
4.580		100.00% Impervious Area

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

Subcatchment X-1I: XDA-1 (impervious)

Hydrograph



Summary for Subcatchment X-1P: XDA-1 (pervious)

Runoff = 120.33 cfs @ 12.17 hrs, Volume= 8.893 af, Depth= 1.73"

Routed to Link XDA-1 : Existing Drainage Area #1

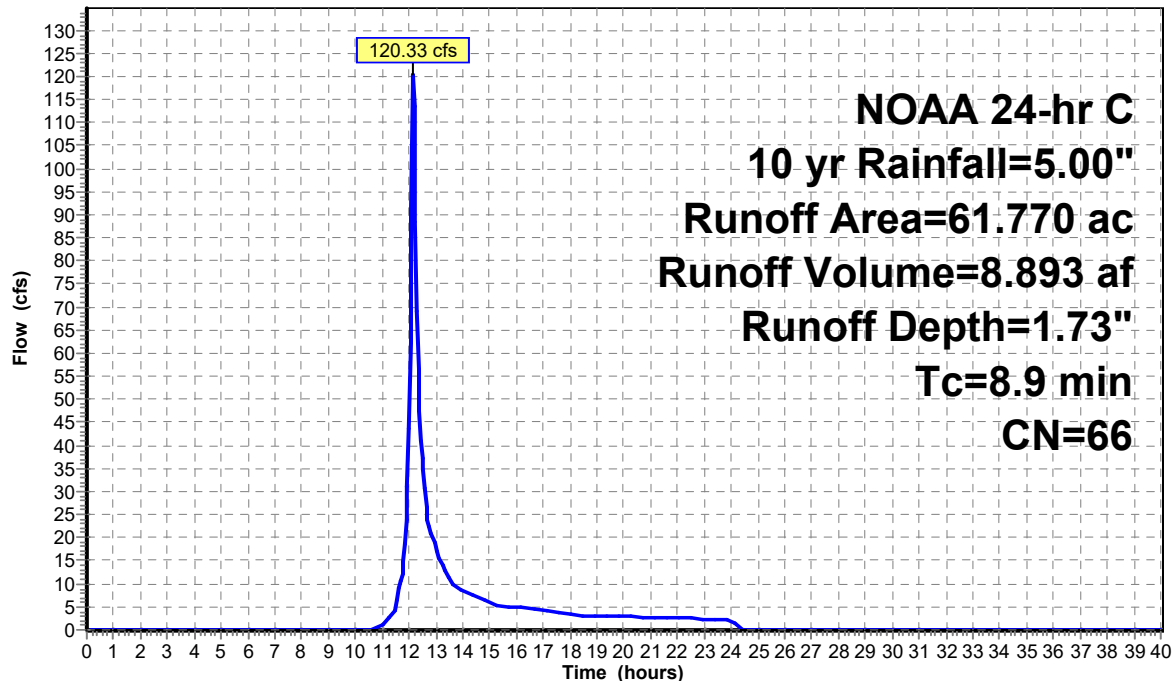
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C 10 yr Rainfall=5.00"

Area (ac)	CN	Description
3.220	61	>75% Grass cover, Good, HSG B
20.810	55	Woods, Good, HSG B
14.490	70	Woods, Good, HSG C
6.630	77	Woods, Good, HSG D
10.000	71	Row crops, C&T, Good, HSG B
6.300	78	Row crops, C&T, Good, HSG C
0.320	81	Row crops, C&T, Good, HSG D
61.770	66	Weighted Average
61.770		100.00% Pervious Area

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

Subcatchment X-1P: XDA-1 (pervious)

Hydrograph



Summary for Subcatchment X-1S: XDA-1 (pervious)

Runoff = 53.99 cfs @ 12.17 hrs, Volume= 3.950 af, Depth= 1.88"
Routed to Link XDA-1 : Existing Drainage Area #1

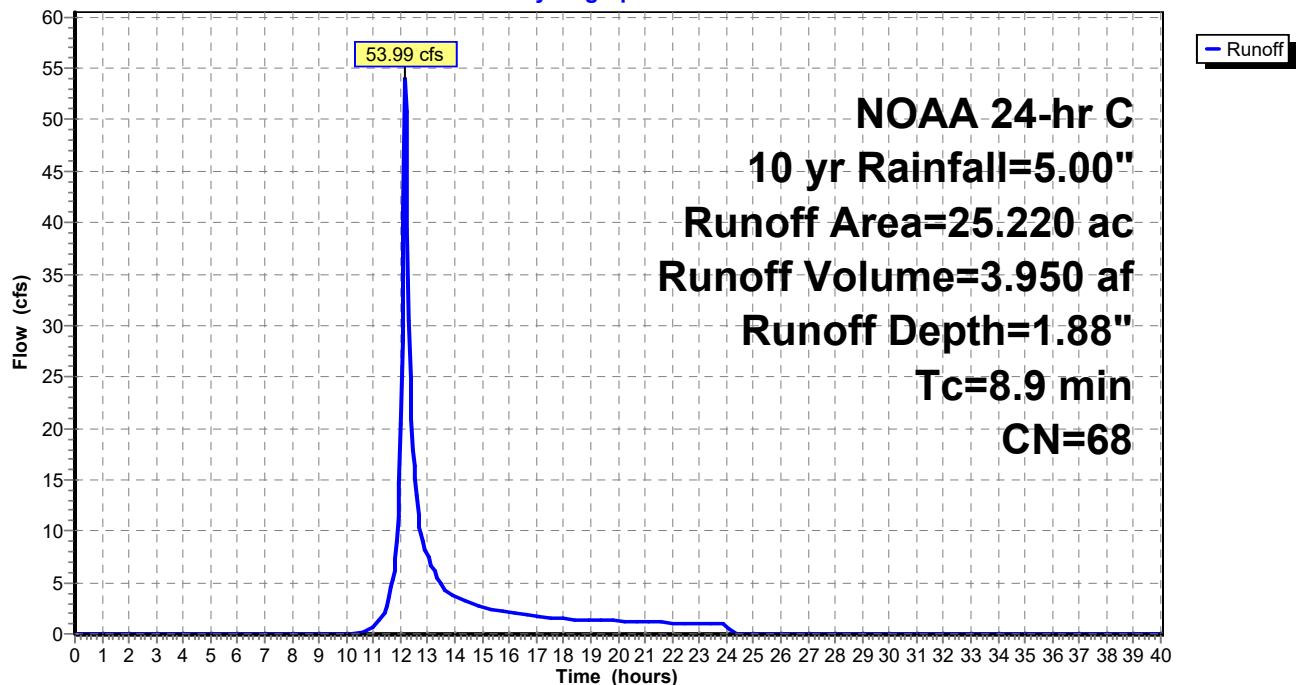
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C 10 yr Rainfall=5.00"

Area (ac)	CN	Description
3.220	61	>75% Grass cover, Good, HSG B
5.130	55	Woods, Good, HSG B
2.350	70	Woods, Good, HSG C
0.060	77	Woods, Good, HSG D
8.280	71	Row crops, C&T, Good, HSG B
6.020	78	Row crops, C&T, Good, HSG C
0.160	81	Row crops, C&T, Good, HSG D
25.220	68	Weighted Average
25.220		100.00% Pervious Area

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

Subcatchment X-1S: XDA-1 (pervious)

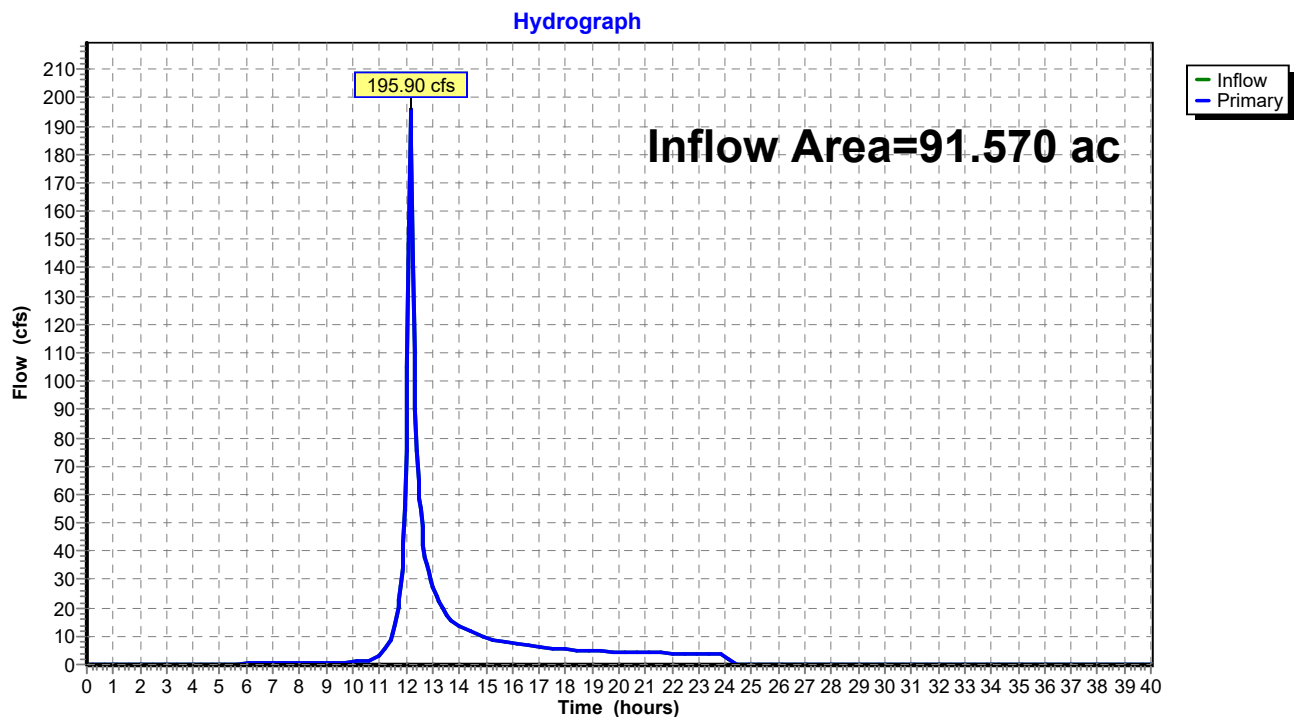
Hydrograph



Summary for Link XDA-1: Existing Drainage Area #1

Inflow Area = 91.570 ac, 5.00% Impervious, Inflow Depth = 1.92" for 10 yr event
Inflow = 195.90 cfs @ 12.17 hrs, Volume= 14.661 af
Primary = 195.90 cfs @ 12.17 hrs, Volume= 14.661 af, Atten= 0%, Lag= 0.0 min
Routed to nonexistent node DP-1

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

Link XDA-1: Existing Drainage Area #1

Summary for Subcatchment X-1I: XDA-1 (impervious)

Runoff = 36.01 cfs @ 12.16 hrs, Volume= 3.061 af, Depth= 8.02"
 Routed to Link XDA-1 : Existing Drainage Area #1

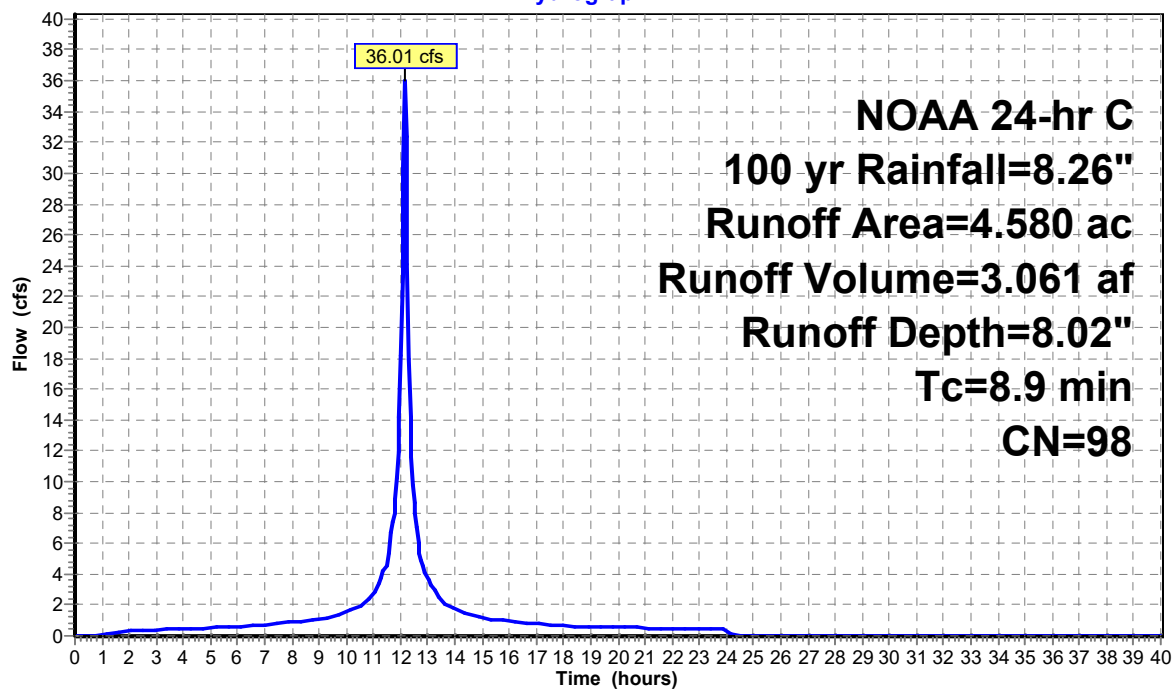
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C 100 yr Rainfall=8.26"

Area (ac)	CN	Description
* 4.580	98	
4.580		100.00% Impervious Area

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

Subcatchment X-1I: XDA-1 (impervious)

Hydrograph



Summary for Subcatchment X-1P: XDA-1 (pervious)

Runoff = 301.76 cfs @ 12.16 hrs, Volume= 21.731 af, Depth= 4.22"

Routed to Link XDA-1 : Existing Drainage Area #1

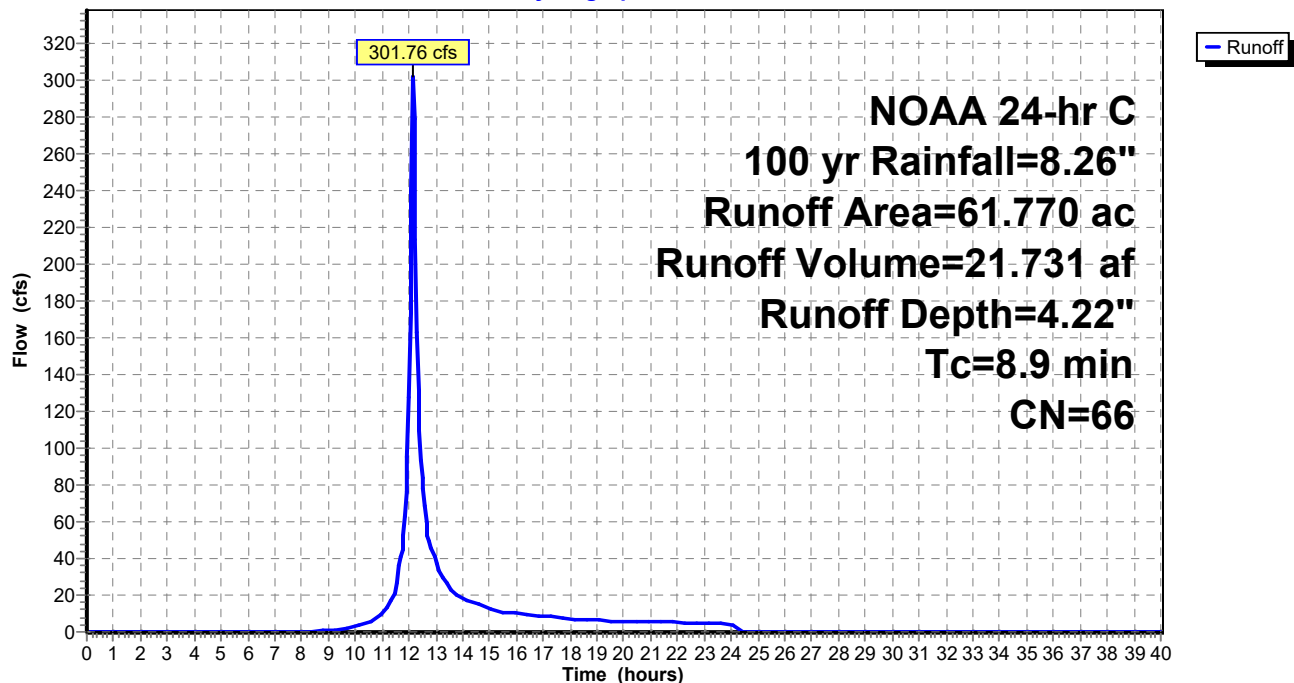
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C 100 yr Rainfall=8.26"

Area (ac)	CN	Description
3.220	61	>75% Grass cover, Good, HSG B
20.810	55	Woods, Good, HSG B
14.490	70	Woods, Good, HSG C
6.630	77	Woods, Good, HSG D
10.000	71	Row crops, C&T, Good, HSG B
6.300	78	Row crops, C&T, Good, HSG C
0.320	81	Row crops, C&T, Good, HSG D
61.770	66	Weighted Average
61.770		100.00% Pervious Area

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

Subcatchment X-1P: XDA-1 (pervious)

Hydrograph



Summary for Subcatchment X-1S: XDA-1 (pervious)

Runoff = 129.91 cfs @ 12.16 hrs, Volume= 9.362 af, Depth= 4.45"

Routed to Link XDA-1 : Existing Drainage Area #1

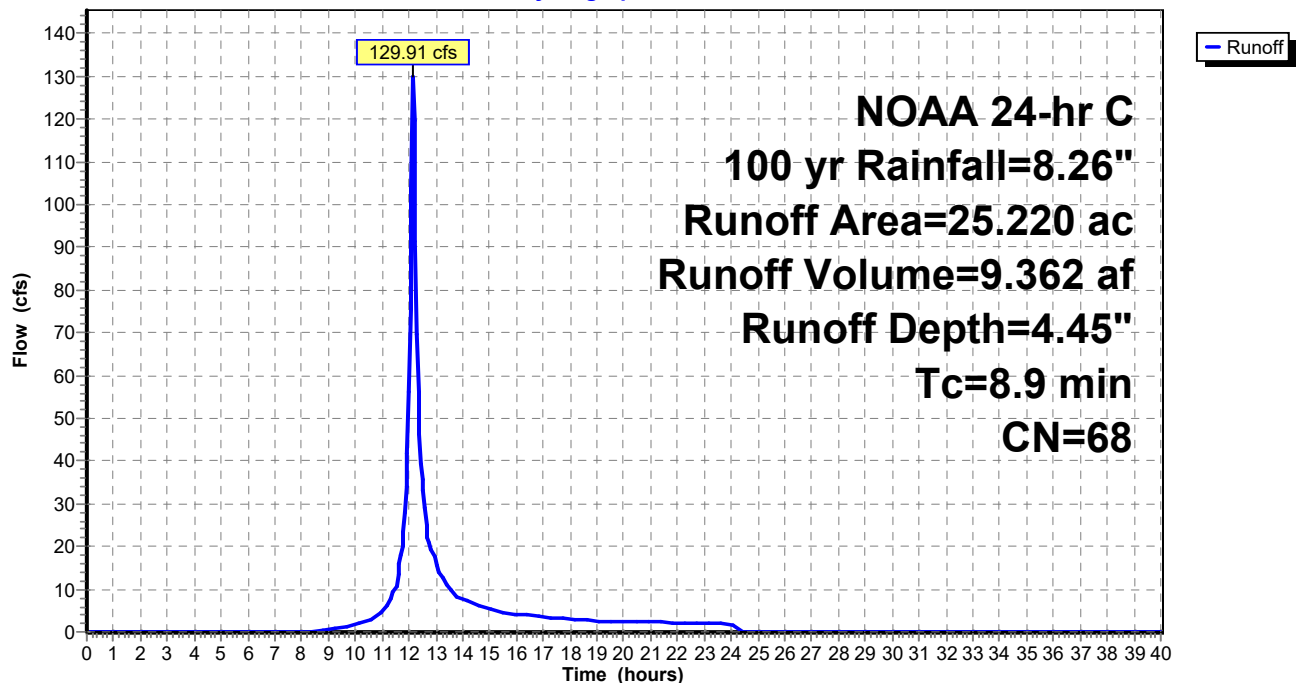
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C 100 yr Rainfall=8.26"

Area (ac)	CN	Description
3.220	61	>75% Grass cover, Good, HSG B
5.130	55	Woods, Good, HSG B
2.350	70	Woods, Good, HSG C
0.060	77	Woods, Good, HSG D
8.280	71	Row crops, C&T, Good, HSG B
6.020	78	Row crops, C&T, Good, HSG C
0.160	81	Row crops, C&T, Good, HSG D
25.220	68	Weighted Average
25.220		100.00% Pervious Area

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

Subcatchment X-1S: XDA-1 (pervious)

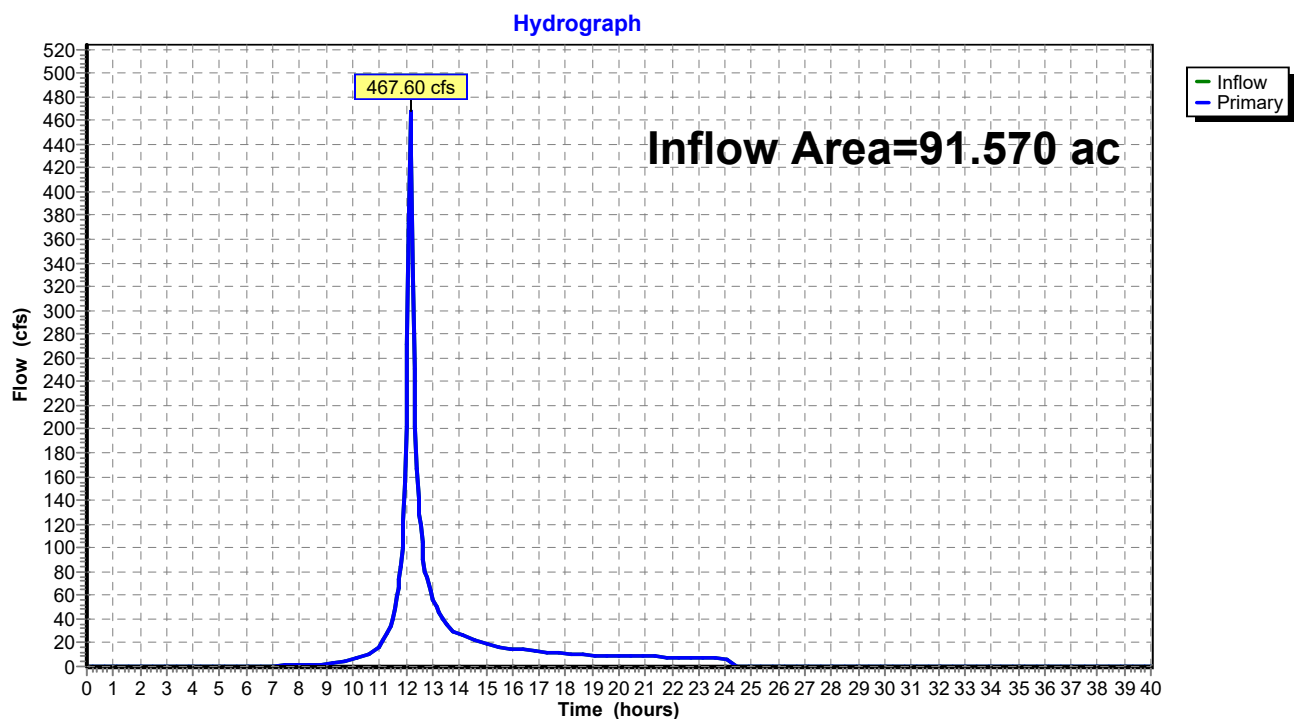
Hydrograph

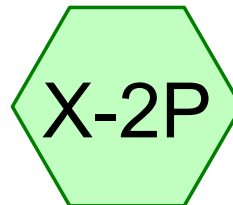


Summary for Link XDA-1: Existing Drainage Area #1

Inflow Area = 91.570 ac, 5.00% Impervious, Inflow Depth = 4.48" for 100 yr event
Inflow = 467.60 cfs @ 12.16 hrs, Volume= 34.154 af
Primary = 467.60 cfs @ 12.16 hrs, Volume= 34.154 af, Atten= 0%, Lag= 0.0 min
Routed to nonexistent node DP-1

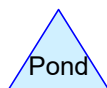
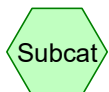
Primary outflow = Inflow, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs

Link XDA-1: Existing Drainage Area #1



Existing Drainage Area
#2

XDA-2 (pervious)



Summary for Subcatchment X-2P: XDA-2 (pervious)

Runoff = 50.22 cfs @ 12.19 hrs, Volume= 3.872 af, Depth= 1.32"
 Routed to Link XDA-2 : Existing Drainage Area #2

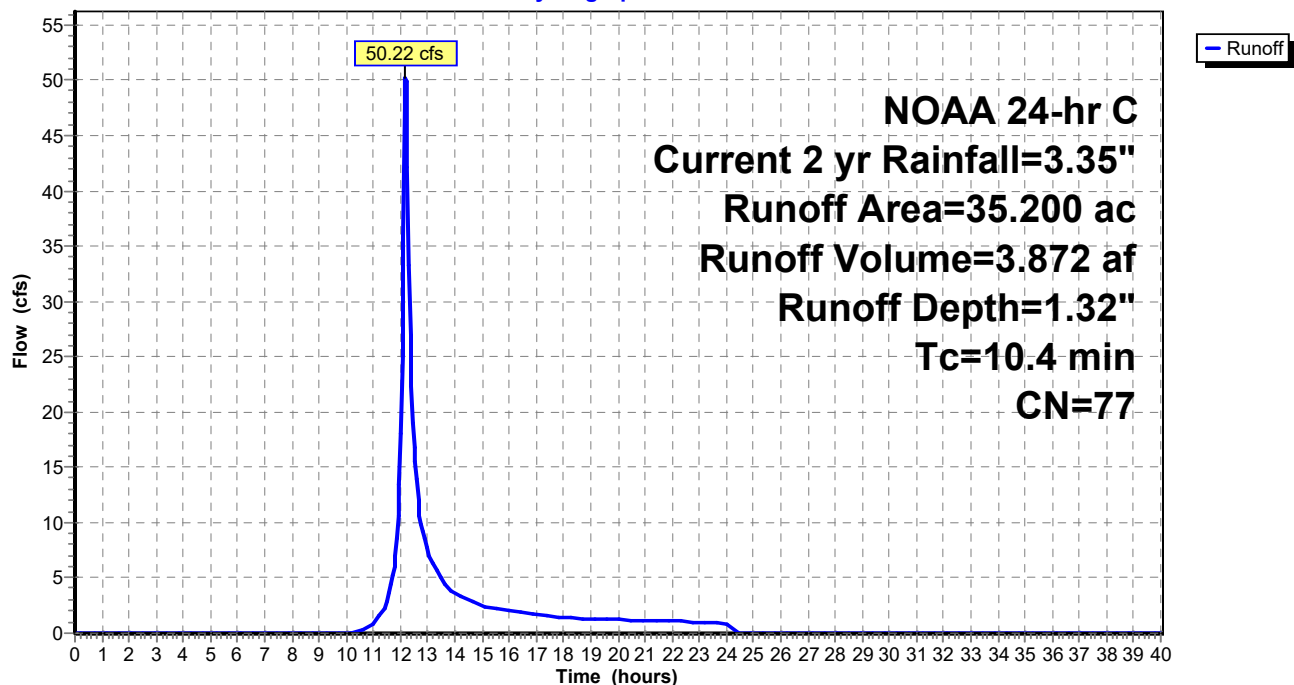
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
5.890	71	Row crops, C&T, Good, HSG B
27.320	78	Row crops, C&T, Good, HSG C
1.990	81	Row crops, C&T, Good, HSG D
35.200	77	Weighted Average
35.200		100.00% Pervious Area

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

Subcatchment X-2P: XDA-2 (pervious)

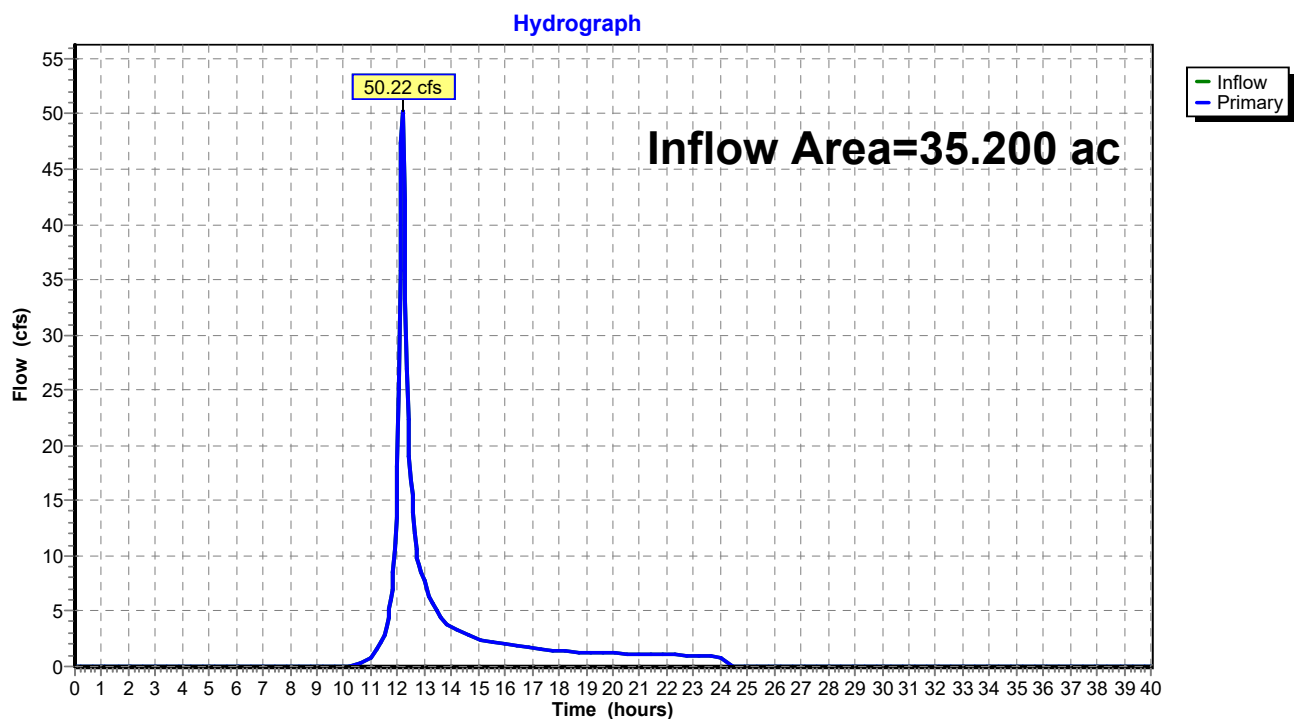
Hydrograph



Summary for Link XDA-2: Existing Drainage Area #2

Inflow Area = 35.200 ac, 0.00% Impervious, Inflow Depth = 1.32" for Current 2 yr event
Inflow = 50.22 cfs @ 12.19 hrs, Volume= 3.872 af
Primary = 50.22 cfs @ 12.19 hrs, Volume= 3.872 af, Atten= 0%, Lag= 0.0 min
Routed to nonexistent node DP-1

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

Link XDA-2: Existing Drainage Area #2

Summary for Subcatchment X-2P: XDA-2 (pervious)

Runoff = 103.12 cfs @ 12.18 hrs, Volume= 7.866 af, Depth= 2.68"
 Routed to Link XDA-2 : Existing Drainage Area #2

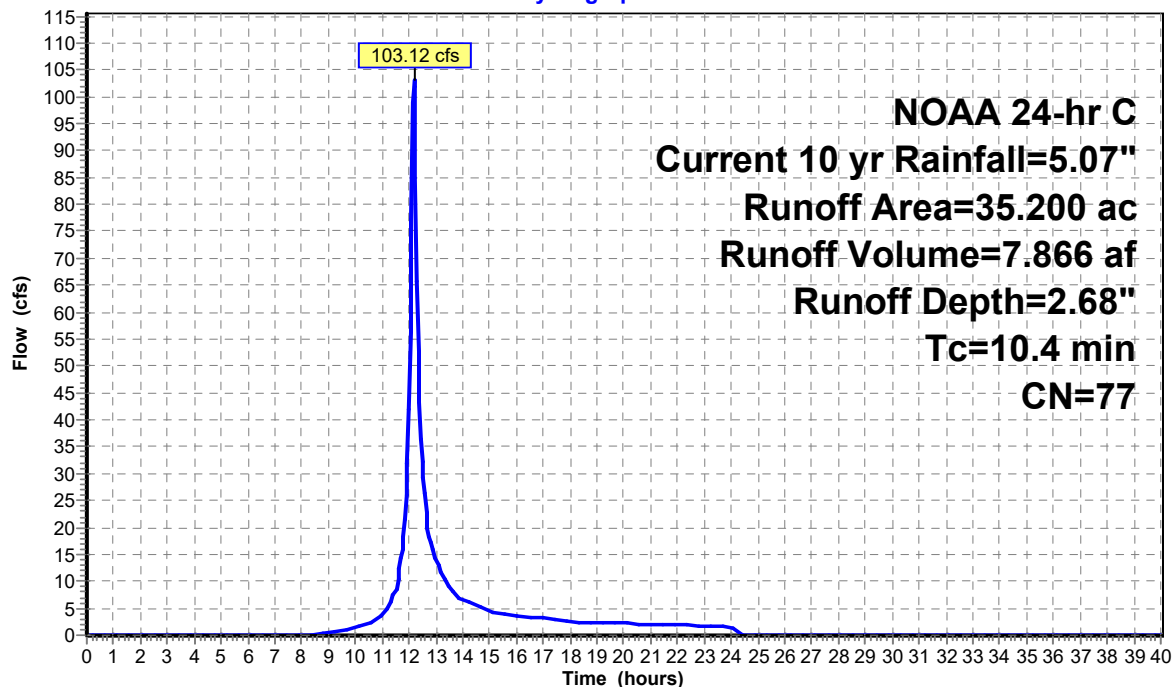
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.07"

Area (ac)	CN	Description
5.890	71	Row crops, C&T, Good, HSG B
27.320	78	Row crops, C&T, Good, HSG C
1.990	81	Row crops, C&T, Good, HSG D
35.200	77	Weighted Average
35.200		100.00% Pervious Area

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

Subcatchment X-2P: XDA-2 (pervious)

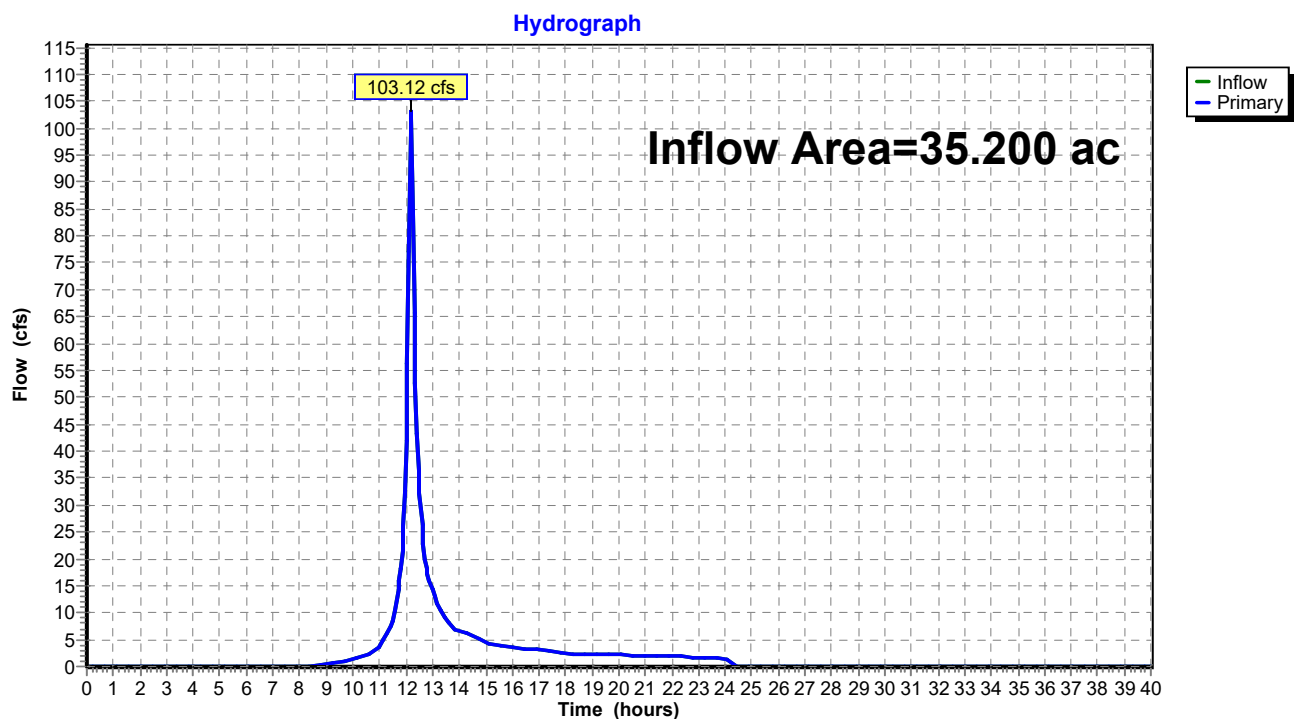
Hydrograph



Summary for Link XDA-2: Existing Drainage Area #2

Inflow Area = 35.200 ac, 0.00% Impervious, Inflow Depth = 2.68" for Current 10 yr event
Inflow = 103.12 cfs @ 12.18 hrs, Volume= 7.866 af
Primary = 103.12 cfs @ 12.18 hrs, Volume= 7.866 af, Atten= 0%, Lag= 0.0 min
Routed to nonexistent node DP-1

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

Link XDA-2: Existing Drainage Area #2

Summary for Subcatchment X-2P: XDA-2 (pervious)

Runoff = 214.50 cfs @ 12.18 hrs, Volume= 16.660 af, Depth= 5.68"
Routed to Link XDA-2 : Existing Drainage Area #2

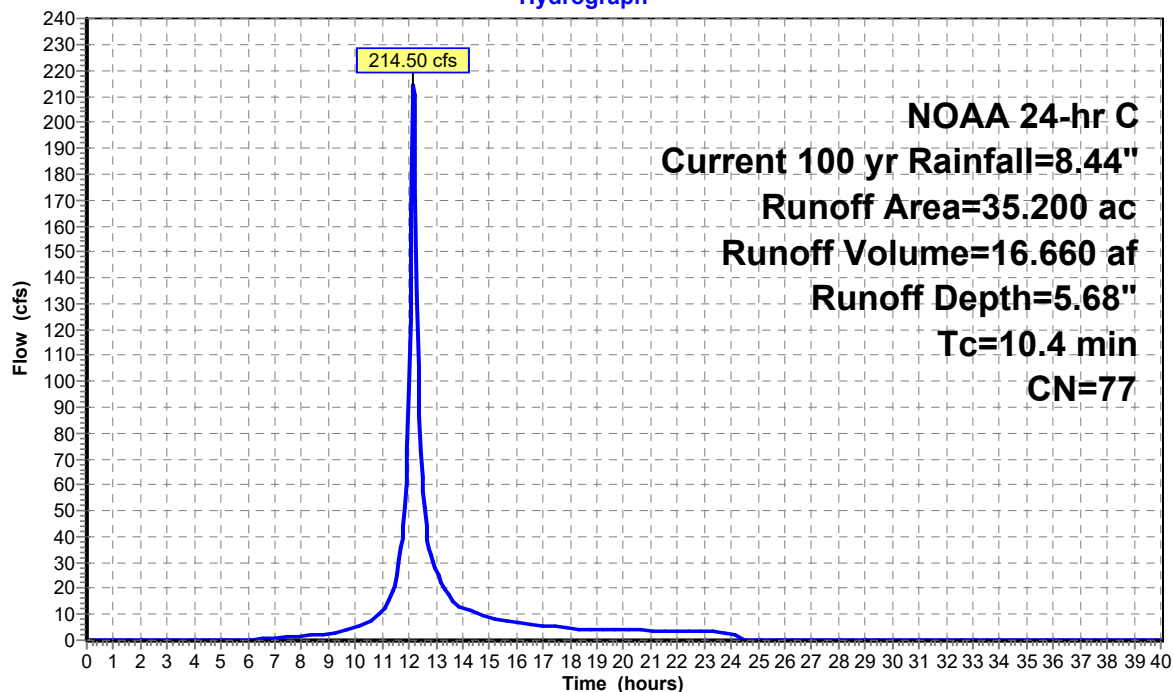
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 100 yr Rainfall=8.44"

Area (ac)	CN	Description
5.890	71	Row crops, C&T, Good, HSG B
27.320	78	Row crops, C&T, Good, HSG C
1.990	81	Row crops, C&T, Good, HSG D
35.200	77	Weighted Average
35.200		100.00% Pervious Area

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

Subcatchment X-2P: XDA-2 (pervious)

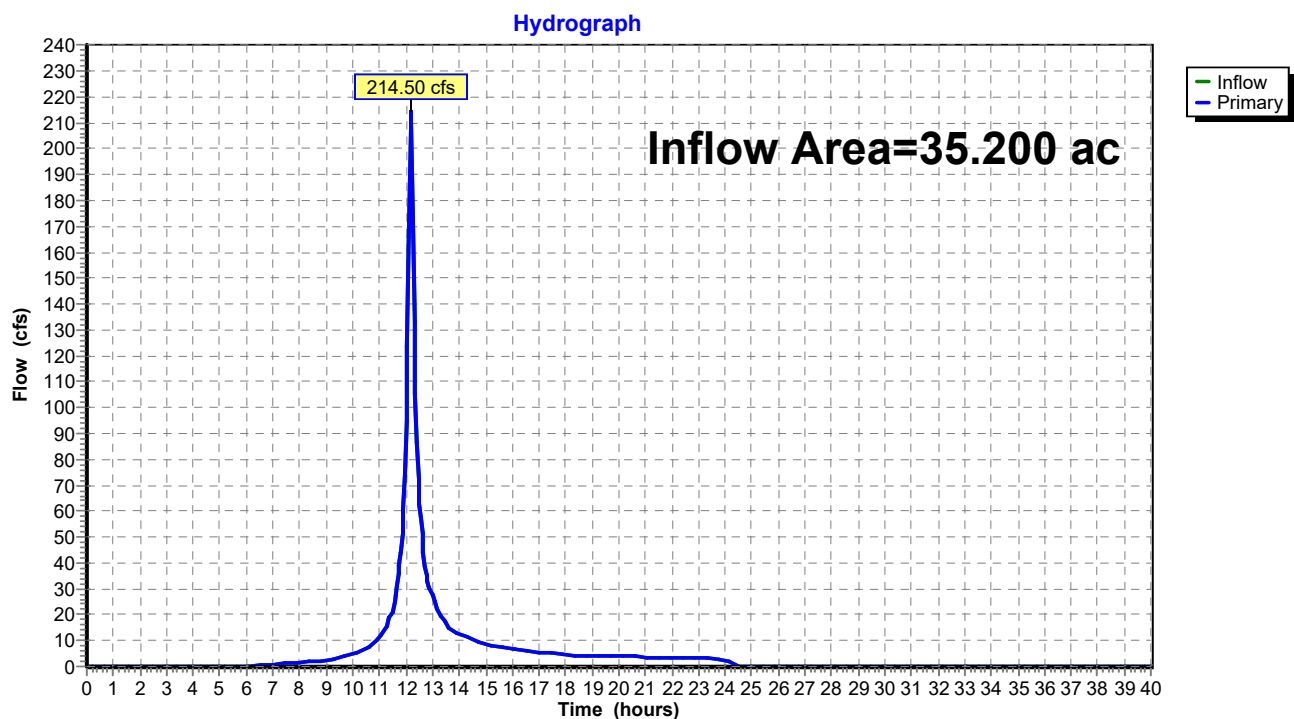
Hydrograph



Summary for Link XDA-2: Existing Drainage Area #2

Inflow Area = 35.200 ac, 0.00% Impervious, Inflow Depth = 5.68" for Current 100 yr event
Inflow = 214.50 cfs @ 12.18 hrs, Volume= 16.660 af
Primary = 214.50 cfs @ 12.18 hrs, Volume= 16.660 af, Atten= 0%, Lag= 0.0 min
Routed to nonexistent node DP-1

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

Link XDA-2: Existing Drainage Area #2

Summary for Subcatchment X-2P: XDA-2 (pervious)

Runoff = 64.99 cfs @ 12.19 hrs, Volume= 4.974 af, Depth= 1.70"

Routed to Link XDA-2 : Existing Drainage Area #2

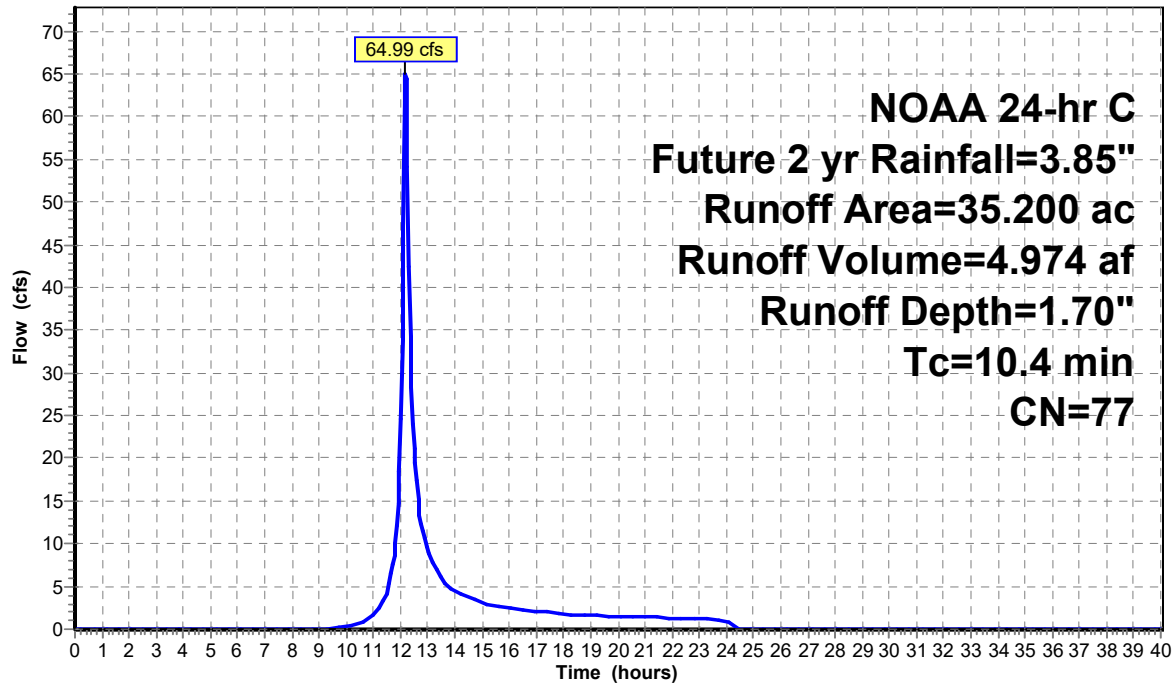
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 2 yr Rainfall=3.85"

Area (ac)	CN	Description
5.890	71	Row crops, C&T, Good, HSG B
27.320	78	Row crops, C&T, Good, HSG C
1.990	81	Row crops, C&T, Good, HSG D
35.200	77	Weighted Average
35.200		100.00% Pervious Area

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

Subcatchment X-2P: XDA-2 (pervious)

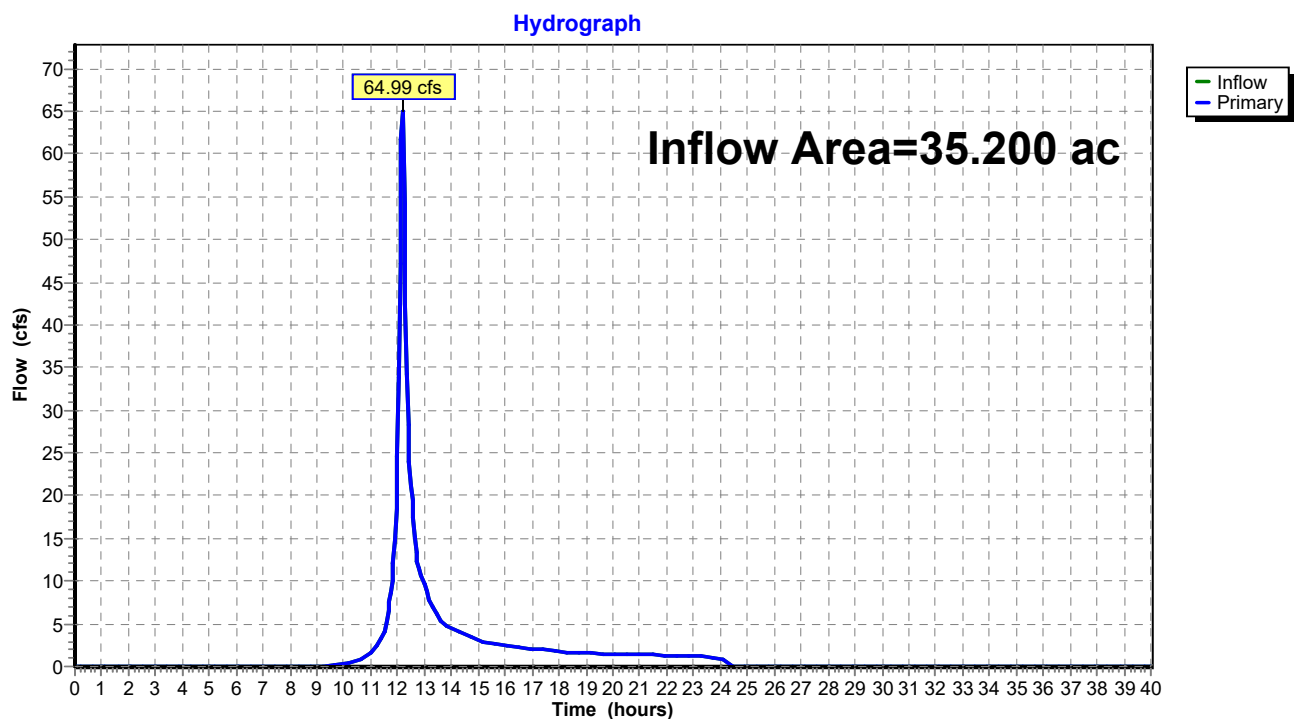
Hydrograph



Summary for Link XDA-2: Existing Drainage Area #2

Inflow Area = 35.200 ac, 0.00% Impervious, Inflow Depth = 1.70" for Future 2 yr event
Inflow = 64.99 cfs @ 12.19 hrs, Volume= 4.974 af
Primary = 64.99 cfs @ 12.19 hrs, Volume= 4.974 af, Atten= 0%, Lag= 0.0 min
Routed to nonexistent node DP-1

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

Link XDA-2: Existing Drainage Area #2

Summary for Subcatchment X-2P: XDA-2 (pervious)

Runoff = 127.12 cfs @ 12.18 hrs, Volume= 9.720 af, Depth= 3.31"
 Routed to Link XDA-2 : Existing Drainage Area #2

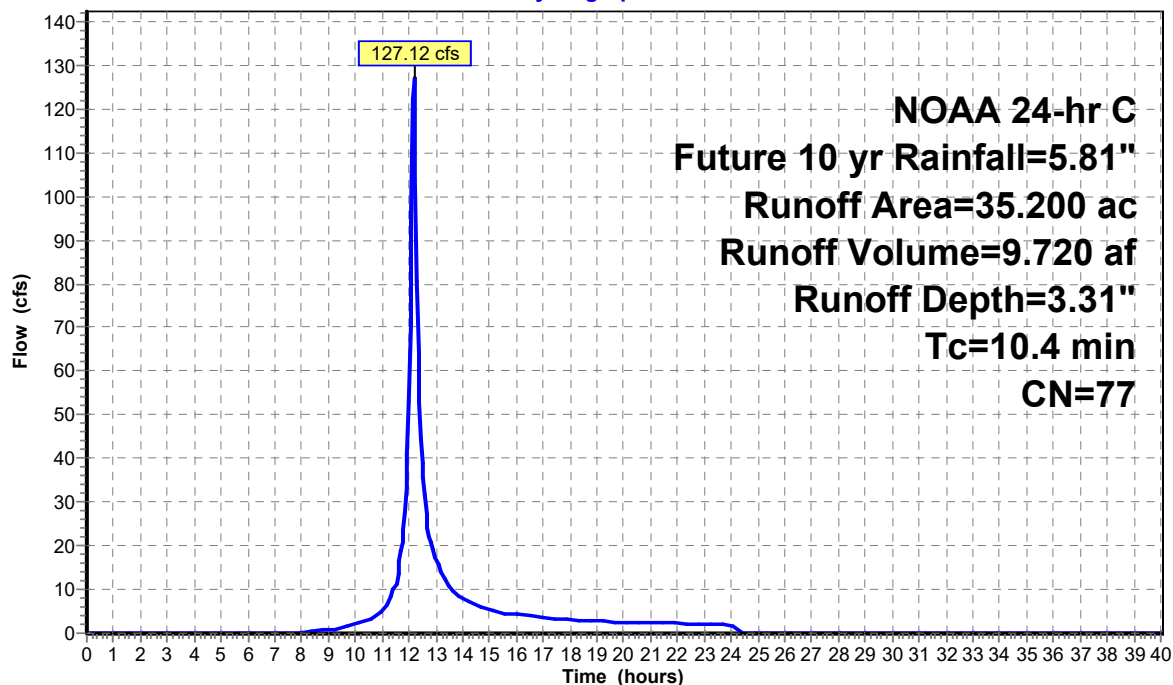
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 10 yr Rainfall=5.81"

Area (ac)	CN	Description
5.890	71	Row crops, C&T, Good, HSG B
27.320	78	Row crops, C&T, Good, HSG C
1.990	81	Row crops, C&T, Good, HSG D
35.200	77	Weighted Average
35.200		100.00% Pervious Area

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

Subcatchment X-2P: XDA-2 (pervious)

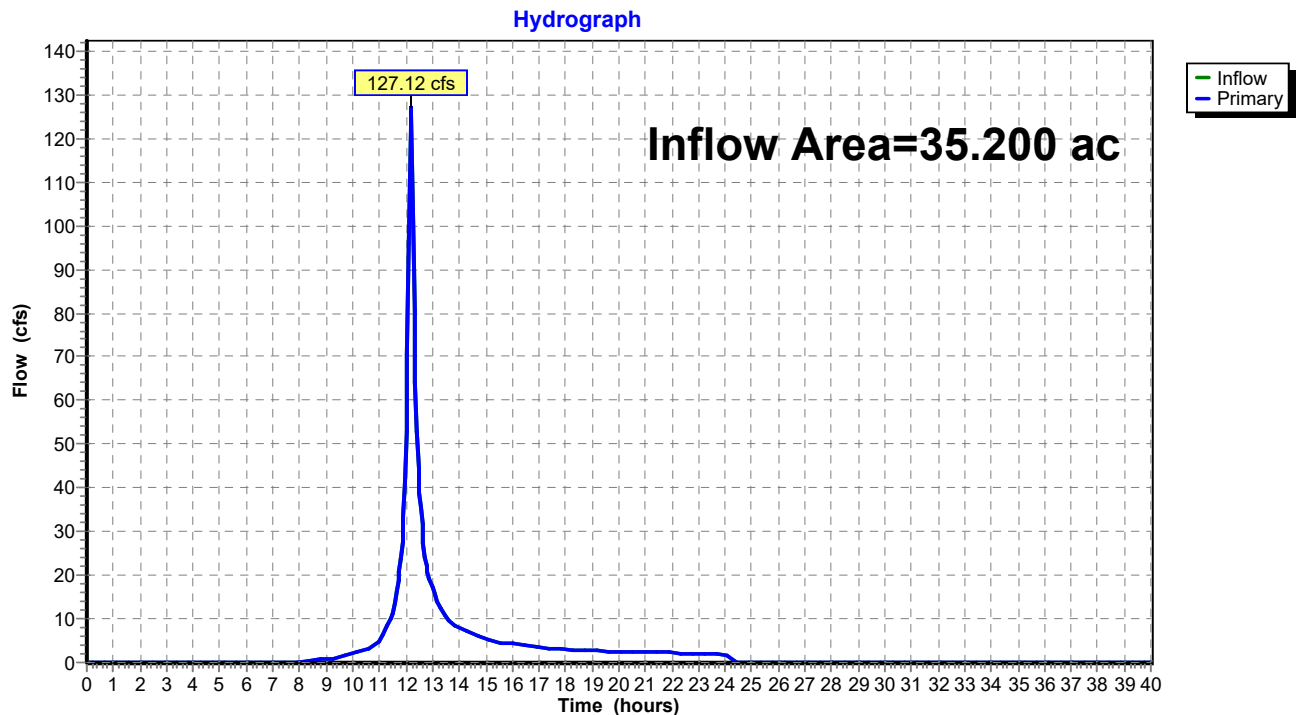
Hydrograph



Summary for Link XDA-2: Existing Drainage Area #2

Inflow Area = 35.200 ac, 0.00% Impervious, Inflow Depth = 3.31" for Future 10 yr event
Inflow = 127.12 cfs @ 12.18 hrs, Volume= 9.720 af
Primary = 127.12 cfs @ 12.18 hrs, Volume= 9.720 af, Atten= 0%, Lag= 0.0 min
Routed to nonexistent node DP-1

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

Link XDA-2: Existing Drainage Area #2

Summary for Subcatchment X-2P: XDA-2 (pervious)

Runoff = 301.66 cfs @ 12.18 hrs, Volume= 23.819 af, Depth= 8.12"
Routed to Link XDA-2 : Existing Drainage Area #2

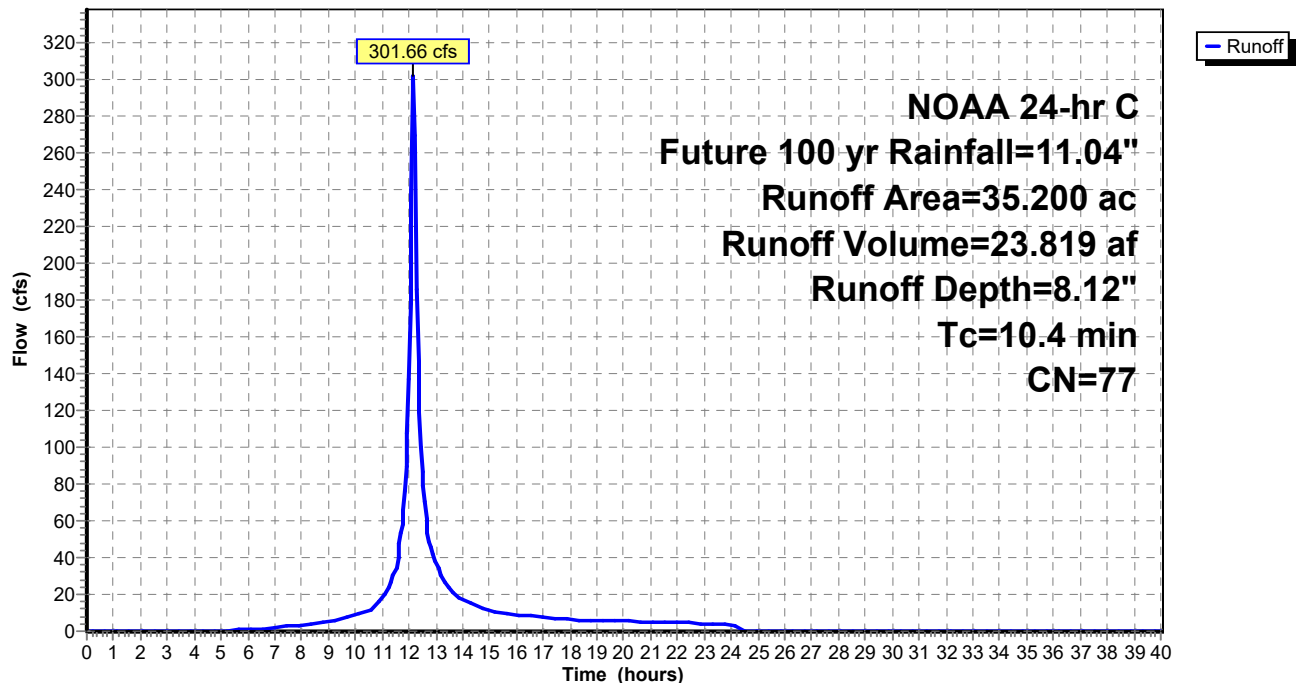
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 100 yr Rainfall=11.04"

Area (ac)	CN	Description
5.890	71	Row crops, C&T, Good, HSG B
27.320	78	Row crops, C&T, Good, HSG C
1.990	81	Row crops, C&T, Good, HSG D
35.200	77	Weighted Average
35.200		100.00% Pervious Area

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

Subcatchment X-2P: XDA-2 (pervious)

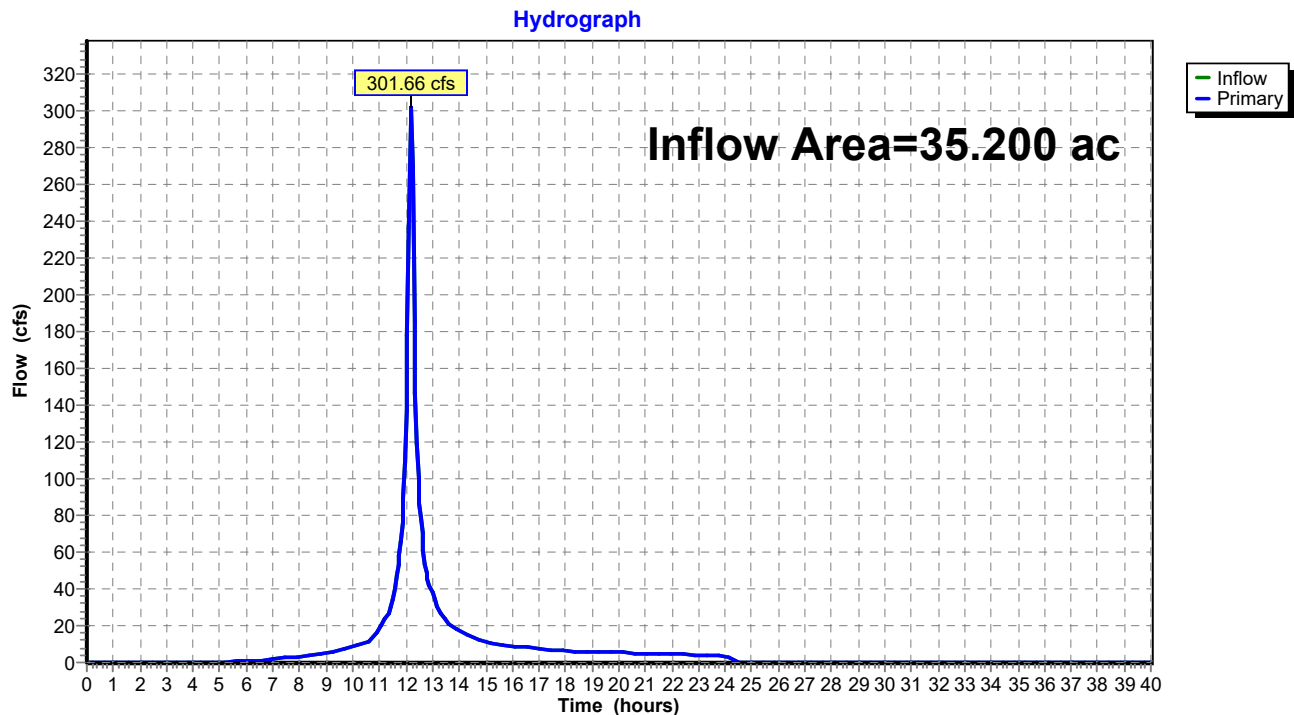
Hydrograph



Summary for Link XDA-2: Existing Drainage Area #2

Inflow Area = 35.200 ac, 0.00% Impervious, Inflow Depth = 8.12" for Future 100 yr event
Inflow = 301.66 cfs @ 12.18 hrs, Volume= 23.819 af
Primary = 301.66 cfs @ 12.18 hrs, Volume= 23.819 af, Atten= 0%, Lag= 0.0 min
Routed to nonexistent node DP-1

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

Link XDA-2: Existing Drainage Area #2

Summary for Subcatchment X-2P: XDA-2 (pervious)

Runoff = 49.35 cfs @ 12.19 hrs, Volume= 3.808 af, Depth= 1.30"
Routed to Link XDA-2 : Existing Drainage Area #2

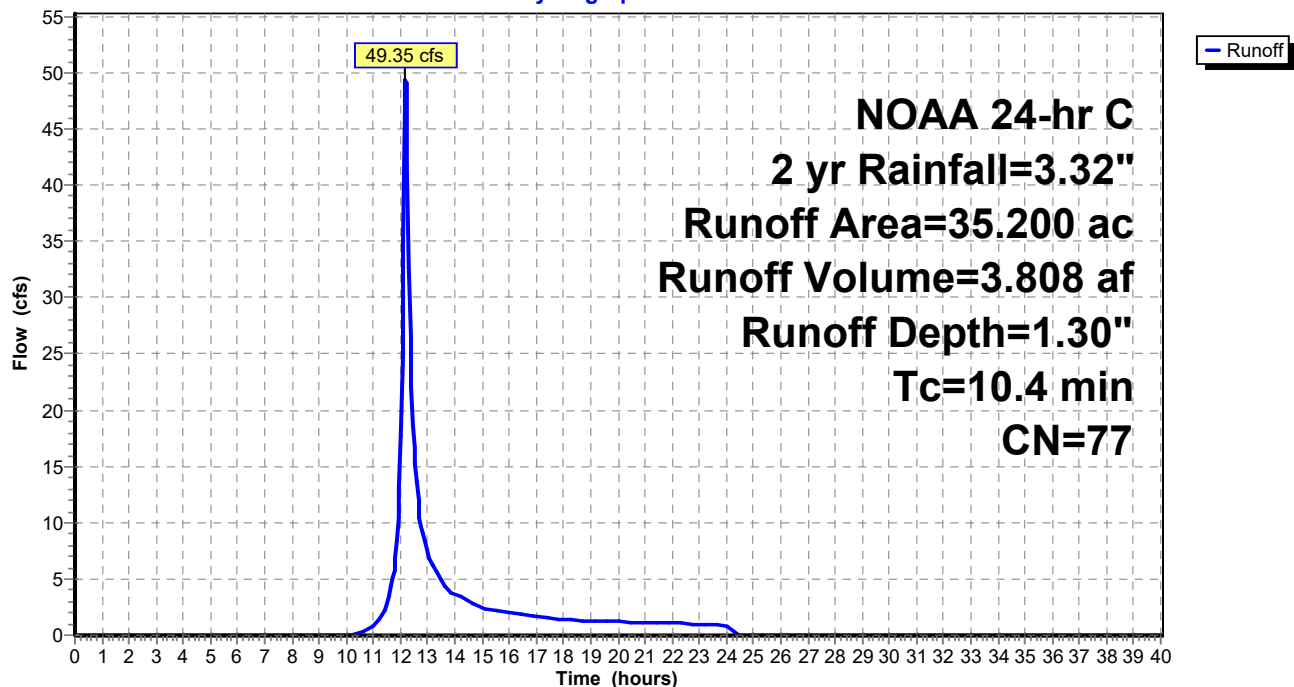
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C 2 yr Rainfall=3.32"

Area (ac)	CN	Description
5.890	71	Row crops, C&T, Good, HSG B
27.320	78	Row crops, C&T, Good, HSG C
1.990	81	Row crops, C&T, Good, HSG D
35.200	77	Weighted Average
35.200		100.00% Pervious Area

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

Subcatchment X-2P: XDA-2 (pervious)

Hydrograph

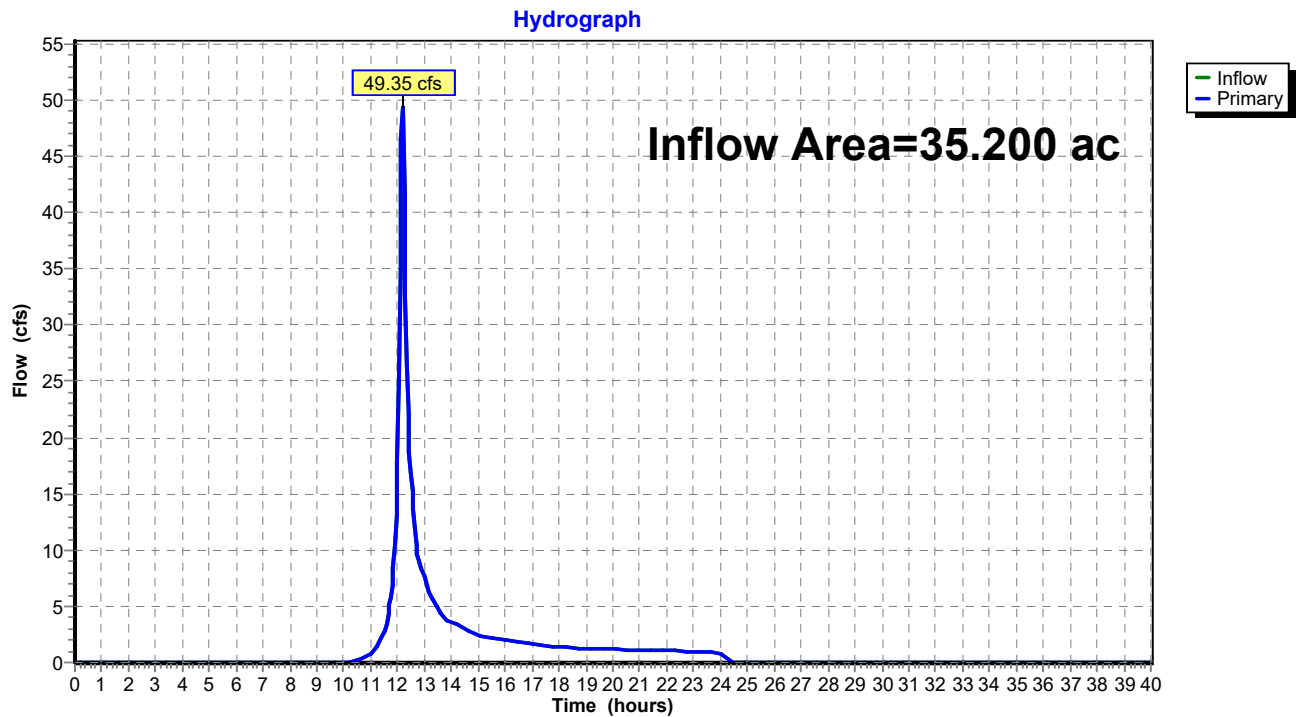


Summary for Link XDA-2: Existing Drainage Area #2

Inflow Area = 35.200 ac, 0.00% Impervious, Inflow Depth = 1.30" for 2 yr event
 Inflow = 49.35 cfs @ 12.19 hrs, Volume= 3.808 af
 Primary = 49.35 cfs @ 12.19 hrs, Volume= 3.808 af, Atten= 0%, Lag= 0.0 min
 Routed to nonexistent node DP-1

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

Link XDA-2: Existing Drainage Area #2



Summary for Subcatchment X-2P: XDA-2 (pervious)

Runoff = 100.88 cfs @ 12.18 hrs, Volume= 7.694 af, Depth= 2.62"

Routed to Link XDA-2 : Existing Drainage Area #2

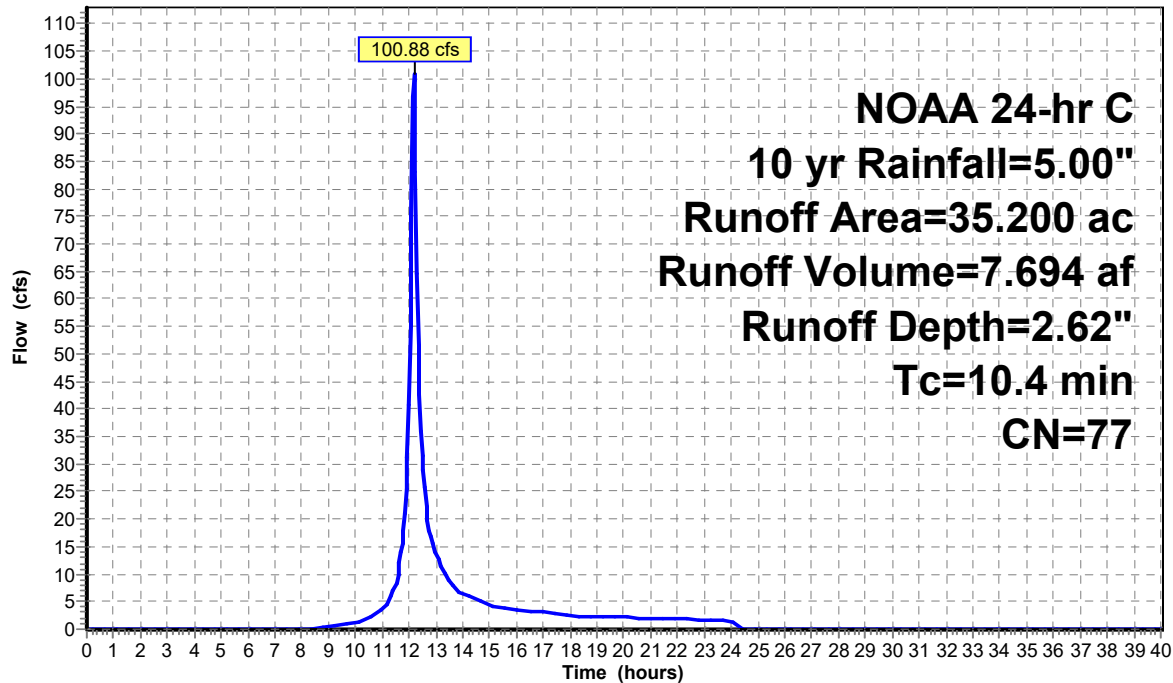
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C 10 yr Rainfall=5.00"

Area (ac)	CN	Description
5.890	71	Row crops, C&T, Good, HSG B
27.320	78	Row crops, C&T, Good, HSG C
1.990	81	Row crops, C&T, Good, HSG D
35.200	77	Weighted Average
35.200		100.00% Pervious Area

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

Subcatchment X-2P: XDA-2 (pervious)

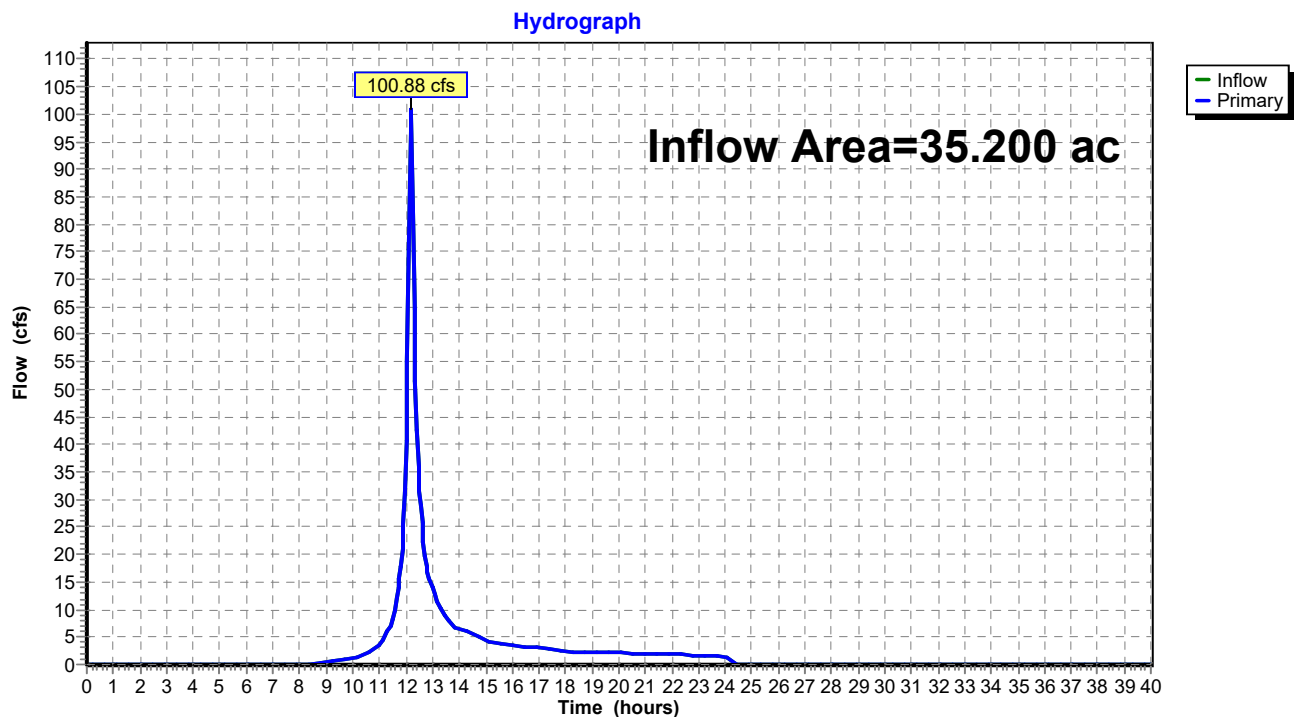
Hydrograph



Summary for Link XDA-2: Existing Drainage Area #2

Inflow Area = 35.200 ac, 0.00% Impervious, Inflow Depth = 2.62" for 10 yr event
Inflow = 100.88 cfs @ 12.18 hrs, Volume= 7.694 af
Primary = 100.88 cfs @ 12.18 hrs, Volume= 7.694 af, Atten= 0%, Lag= 0.0 min
Routed to nonexistent node DP-1

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

Link XDA-2: Existing Drainage Area #2

Summary for Subcatchment X-2P: XDA-2 (pervious)

Runoff = 208.47 cfs @ 12.18 hrs, Volume= 16.173 af, Depth= 5.51"

Routed to Link XDA-2 : Existing Drainage Area #2

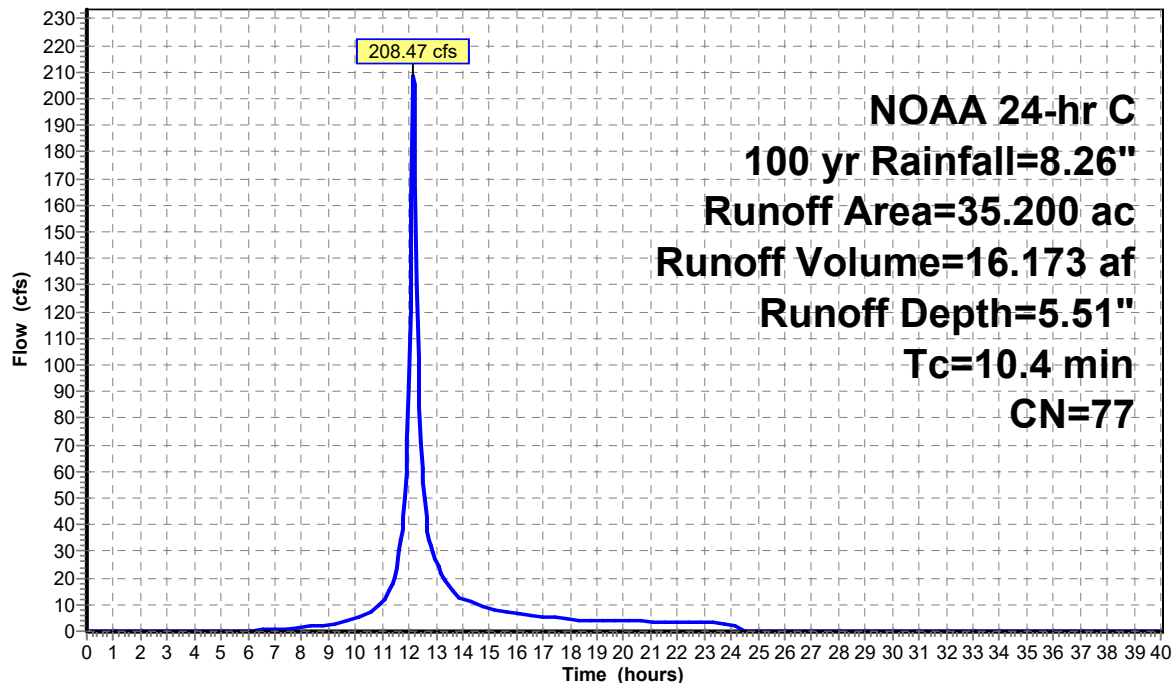
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C 100 yr Rainfall=8.26"

Area (ac)	CN	Description
5.890	71	Row crops, C&T, Good, HSG B
27.320	78	Row crops, C&T, Good, HSG C
1.990	81	Row crops, C&T, Good, HSG D
35.200	77	Weighted Average
35.200		100.00% Pervious Area

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

Subcatchment X-2P: XDA-2 (pervious)

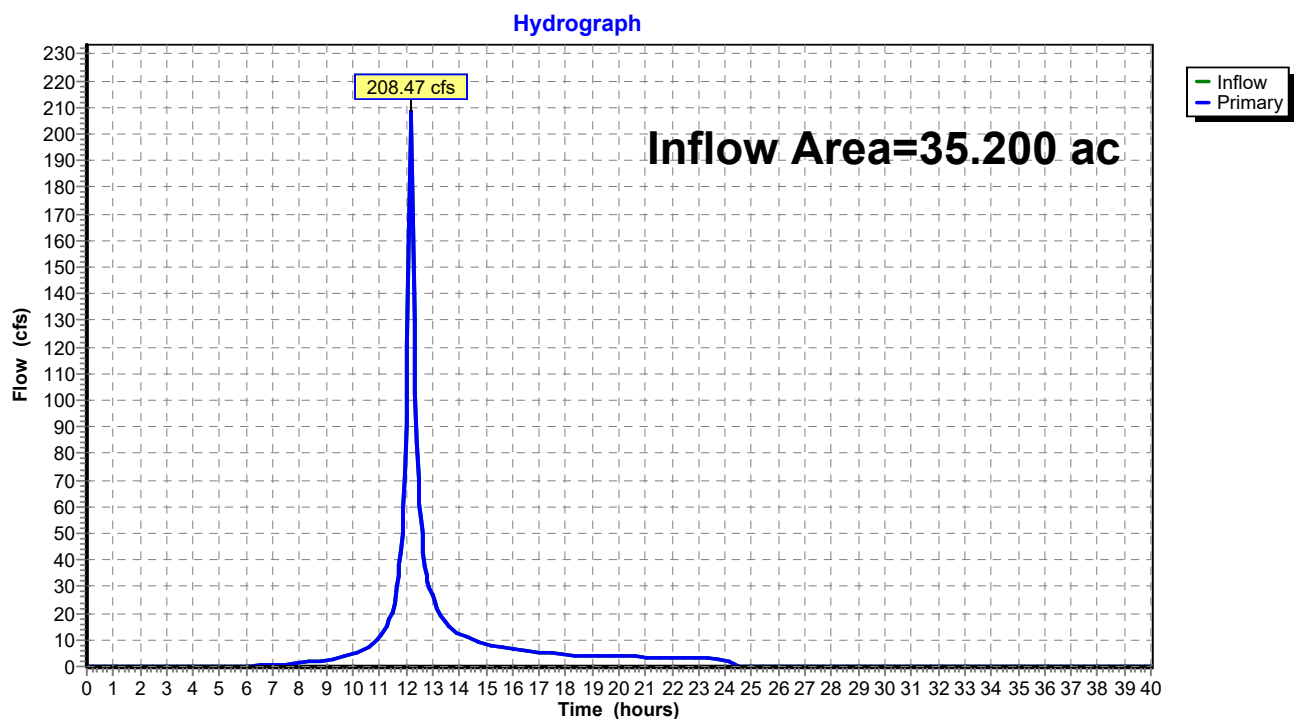
Hydrograph

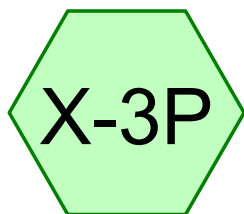


Summary for Link XDA-2: Existing Drainage Area #2

Inflow Area = 35.200 ac, 0.00% Impervious, Inflow Depth = 5.51" for 100 yr event
Inflow = 208.47 cfs @ 12.18 hrs, Volume= 16.173 af
Primary = 208.47 cfs @ 12.18 hrs, Volume= 16.173 af, Atten= 0%, Lag= 0.0 min
Routed to nonexistent node DP-1

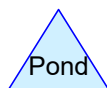
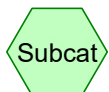
Primary outflow = Inflow, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs

Link XDA-2: Existing Drainage Area #2



XDA-3 (pervious)

Existing Drainage Area
#3



Summary for Subcatchment X-3P: XDA-3 (pervious)

Runoff = 40.75 cfs @ 12.09 hrs, Volume= 2.319 af, Depth= 1.26"
 Routed to Link XDA-3 : Existing Drainage Area #3

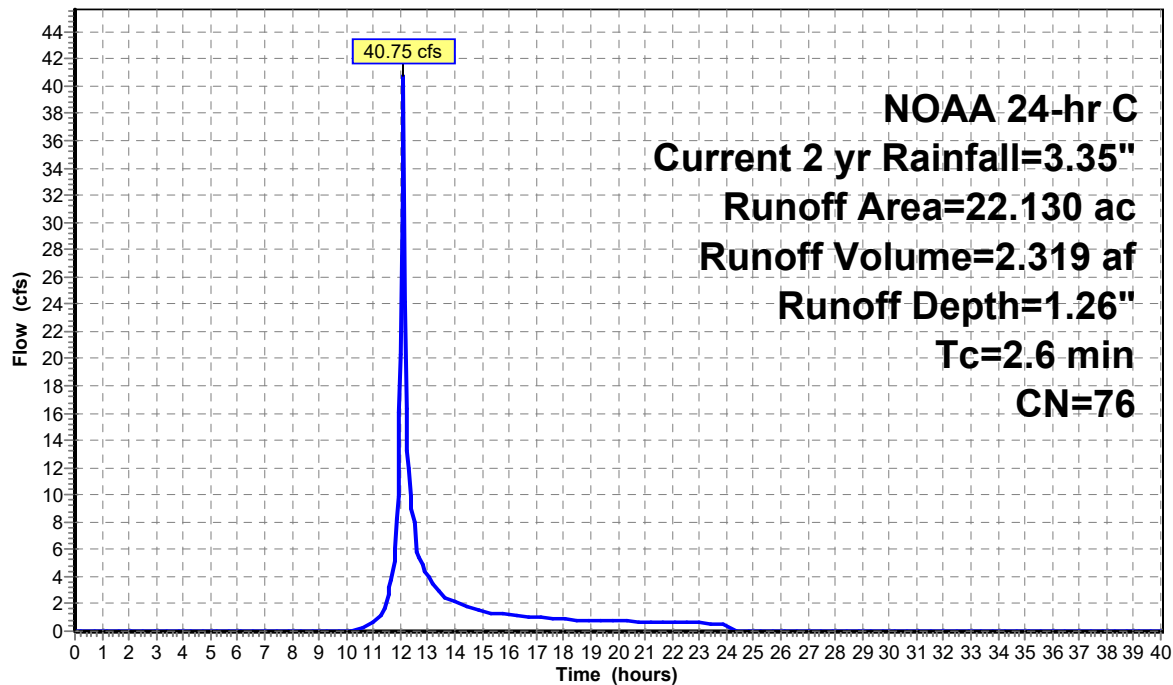
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
6.110	70	Woods, Good, HSG C
0.900	71	Row crops, C&T, Good, HSG B
15.120	78	Row crops, C&T, Good, HSG C
22.130	76	Weighted Average
22.130		100.00% Pervious Area

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

Subcatchment X-3P: XDA-3 (pervious)

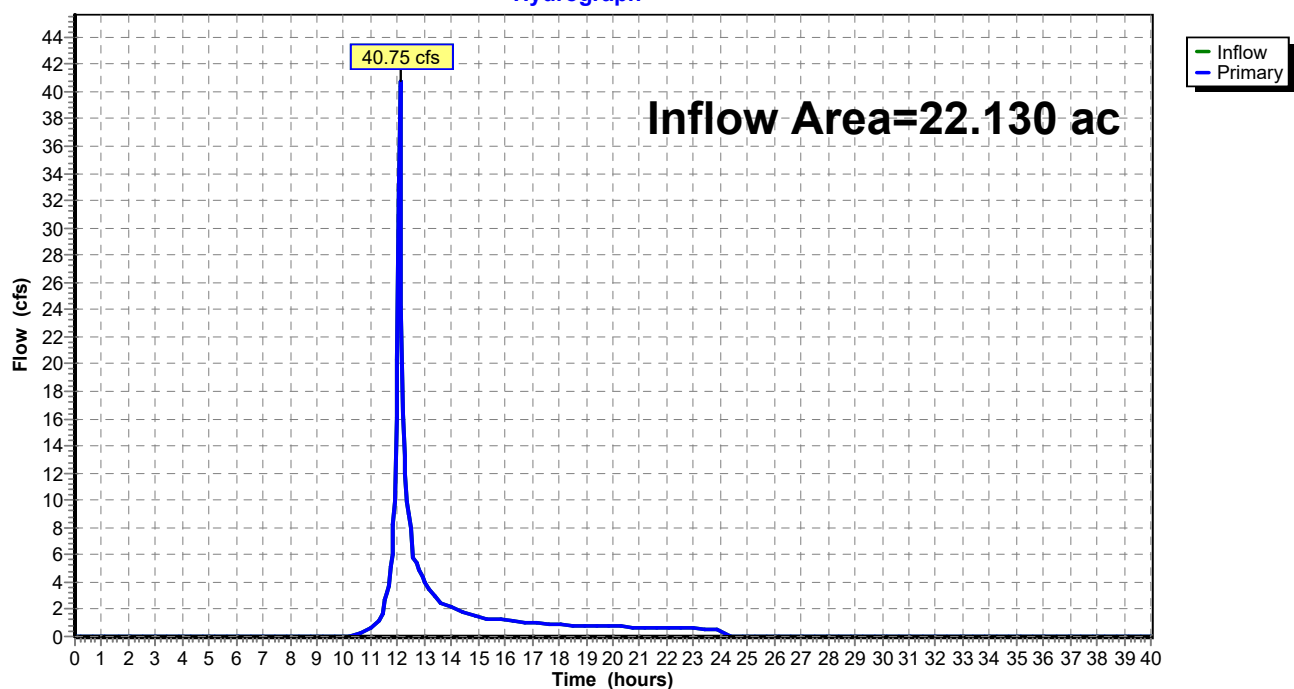
Hydrograph



Summary for Link XDA-3: Existing Drainage Area #3

Inflow Area = 22.130 ac, 0.00% Impervious, Inflow Depth = 1.26" for Current 2 yr event
Inflow = 40.75 cfs @ 12.09 hrs, Volume= 2.319 af
Primary = 40.75 cfs @ 12.09 hrs, Volume= 2.319 af, Atten= 0%, Lag= 0.0 min
Routed to nonexistent node DP-2

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

Link XDA-3: Existing Drainage Area #3**Hydrograph**

Summary for Subcatchment X-3P: XDA-3 (pervious)

Runoff = 84.19 cfs @ 12.09 hrs, Volume= 4.782 af, Depth= 2.59"
Routed to Link XDA-3 : Existing Drainage Area #3

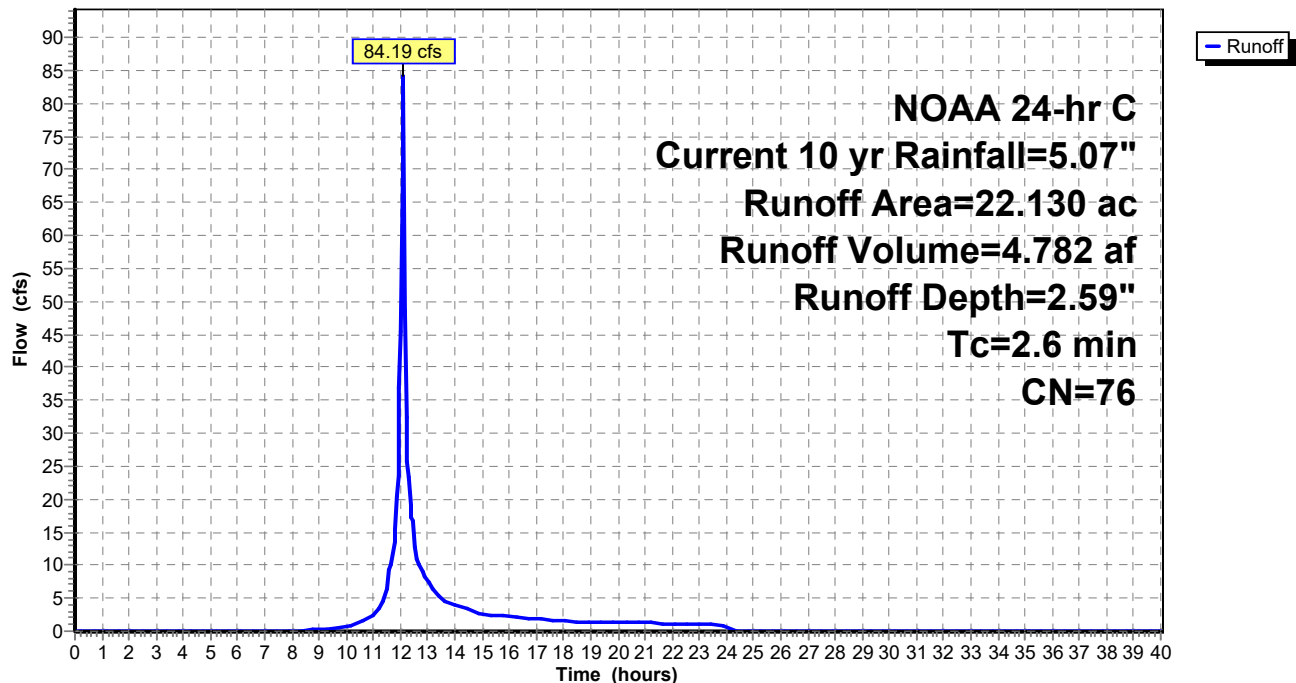
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 10 yr Rainfall=5.07"

Area (ac)	CN	Description
6.110	70	Woods, Good, HSG C
0.900	71	Row crops, C&T, Good, HSG B
15.120	78	Row crops, C&T, Good, HSG C
22.130	76	Weighted Average
22.130		100.00% Pervious Area

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

Subcatchment X-3P: XDA-3 (pervious)

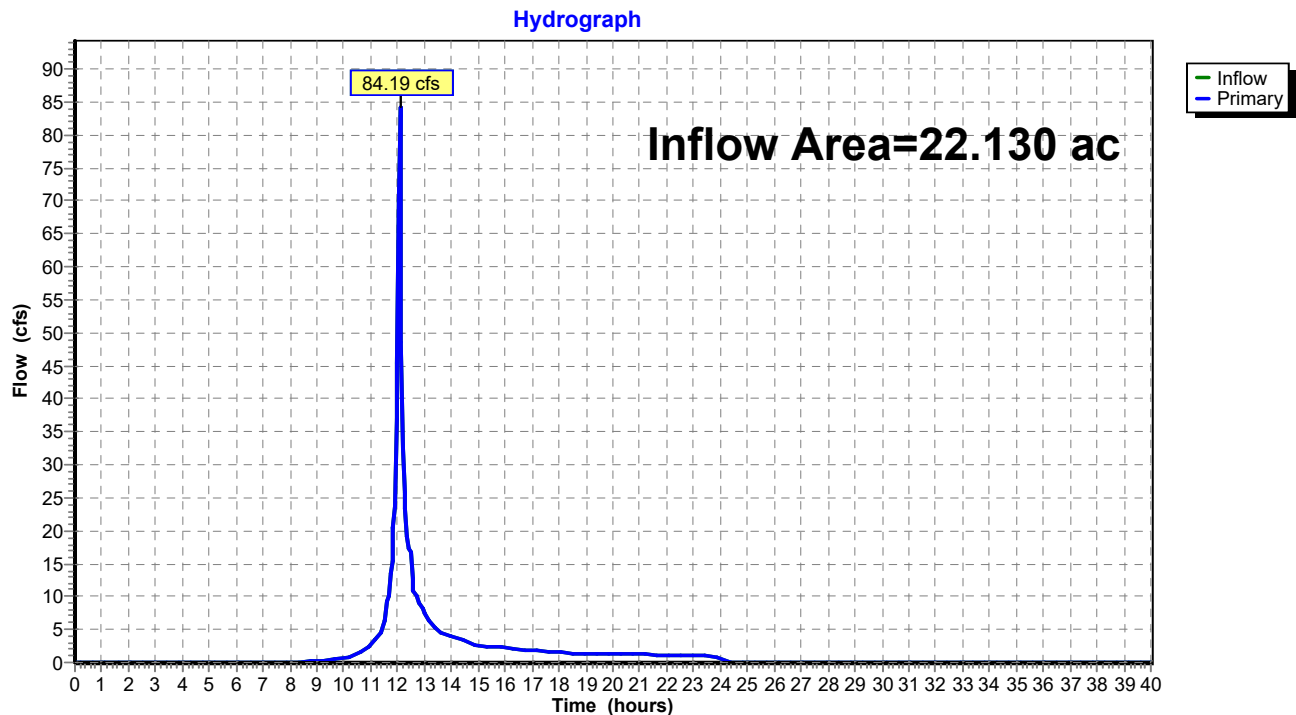
Hydrograph



Summary for Link XDA-3: Existing Drainage Area #3

Inflow Area = 22.130 ac, 0.00% Impervious, Inflow Depth = 2.59" for Current 10 yr event
Inflow = 84.19 cfs @ 12.09 hrs, Volume= 4.782 af
Primary = 84.19 cfs @ 12.09 hrs, Volume= 4.782 af, Atten= 0%, Lag= 0.0 min
Routed to nonexistent node DP-2

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

Link XDA-3: Existing Drainage Area #3

Summary for Subcatchment X-3P: XDA-3 (pervious)

Runoff = 175.74 cfs @ 12.09 hrs, Volume= 10.253 af, Depth= 5.56"

Routed to Link XDA-3 : Existing Drainage Area #3

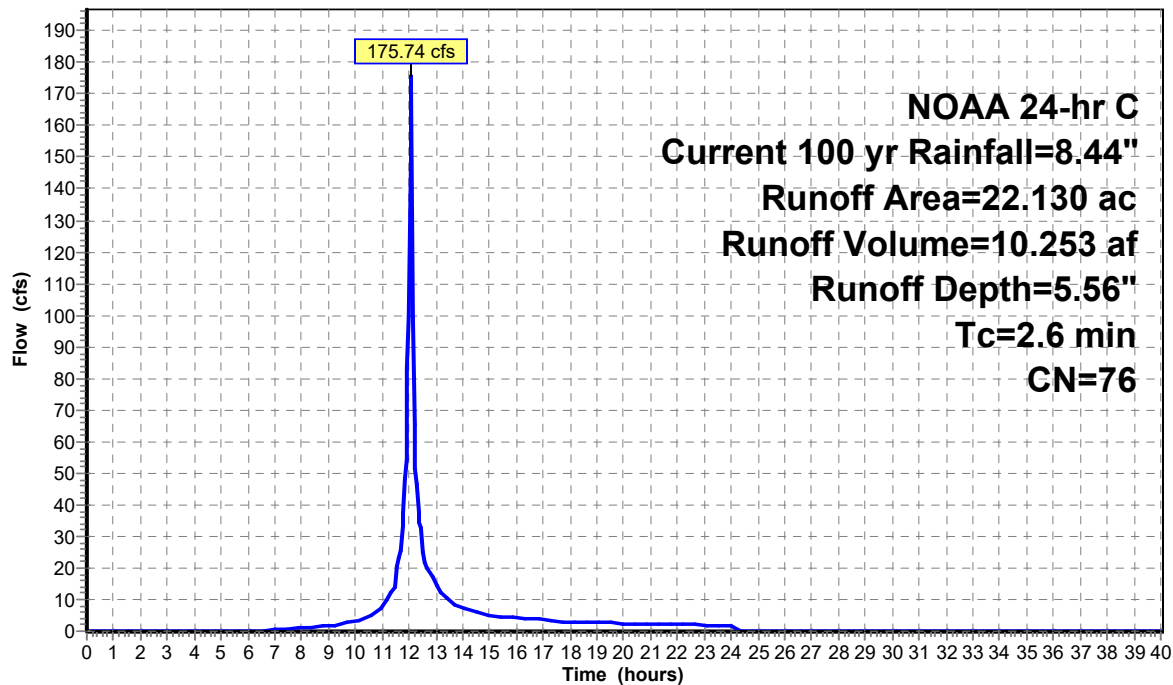
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 100 yr Rainfall=8.44"

Area (ac)	CN	Description
6.110	70	Woods, Good, HSG C
0.900	71	Row crops, C&T, Good, HSG B
15.120	78	Row crops, C&T, Good, HSG C
22.130	76	Weighted Average
22.130		100.00% Pervious Area

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

Subcatchment X-3P: XDA-3 (pervious)

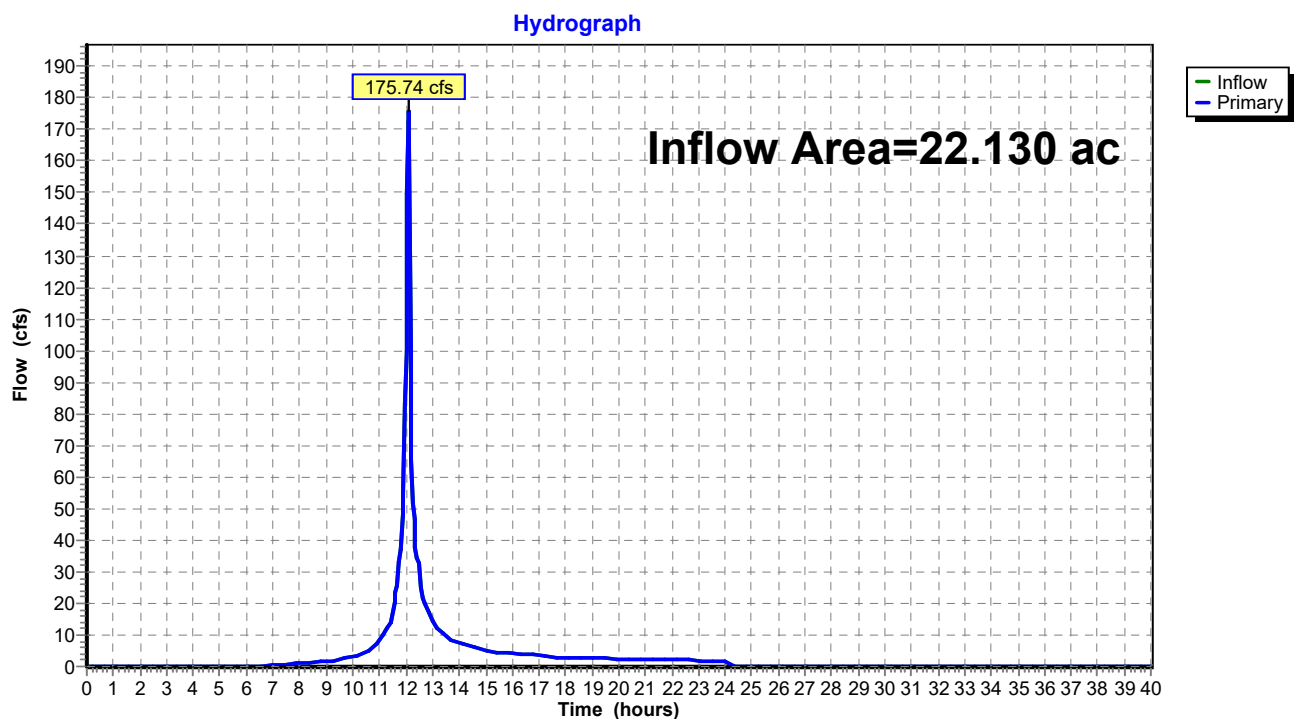
Hydrograph



Summary for Link XDA-3: Existing Drainage Area #3

Inflow Area = 22.130 ac, 0.00% Impervious, Inflow Depth = 5.56" for Current 100 yr event
Inflow = 175.74 cfs @ 12.09 hrs, Volume= 10.253 af
Primary = 175.74 cfs @ 12.09 hrs, Volume= 10.253 af, Atten= 0%, Lag= 0.0 min
Routed to nonexistent node DP-2

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

Link XDA-3: Existing Drainage Area #3

Summary for Subcatchment X-3P: XDA-3 (pervious)

Runoff = 52.87 cfs @ 12.09 hrs, Volume= 2.996 af, Depth= 1.62"
Routed to Link XDA-3 : Existing Drainage Area #3

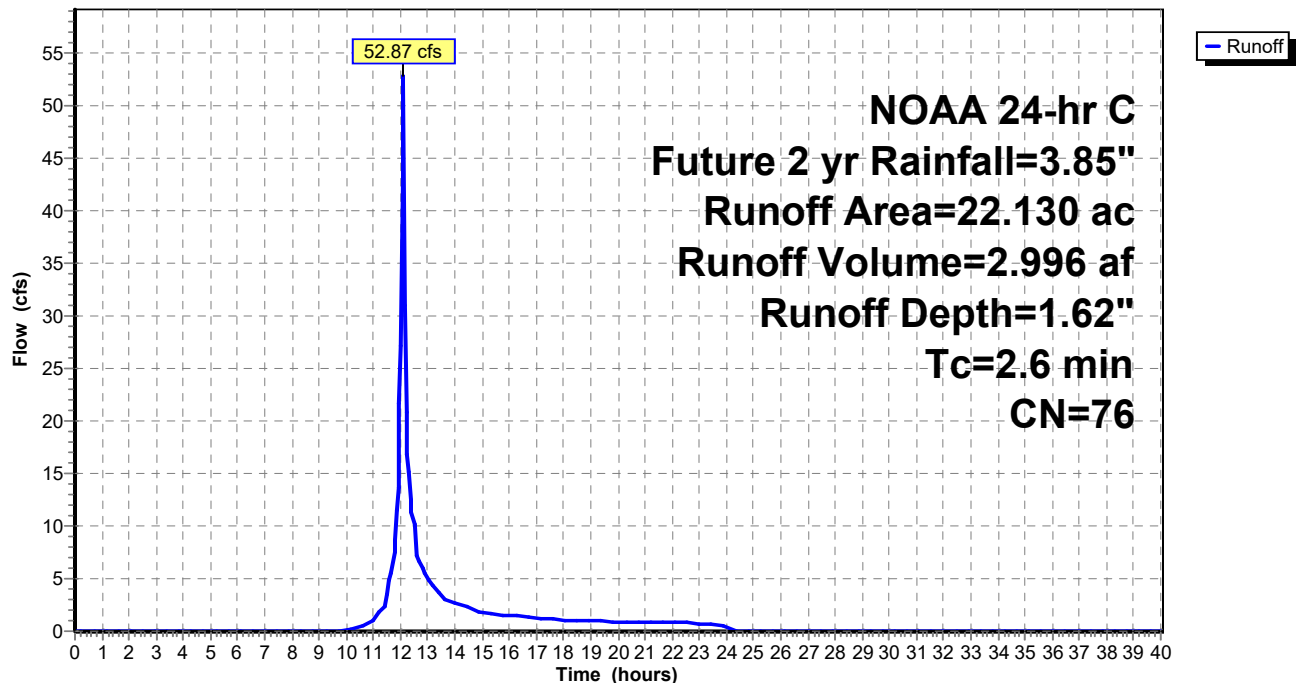
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 2 yr Rainfall=3.85"

Area (ac)	CN	Description
6.110	70	Woods, Good, HSG C
0.900	71	Row crops, C&T, Good, HSG B
15.120	78	Row crops, C&T, Good, HSG C
22.130	76	Weighted Average
22.130		100.00% Pervious Area

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

Subcatchment X-3P: XDA-3 (pervious)

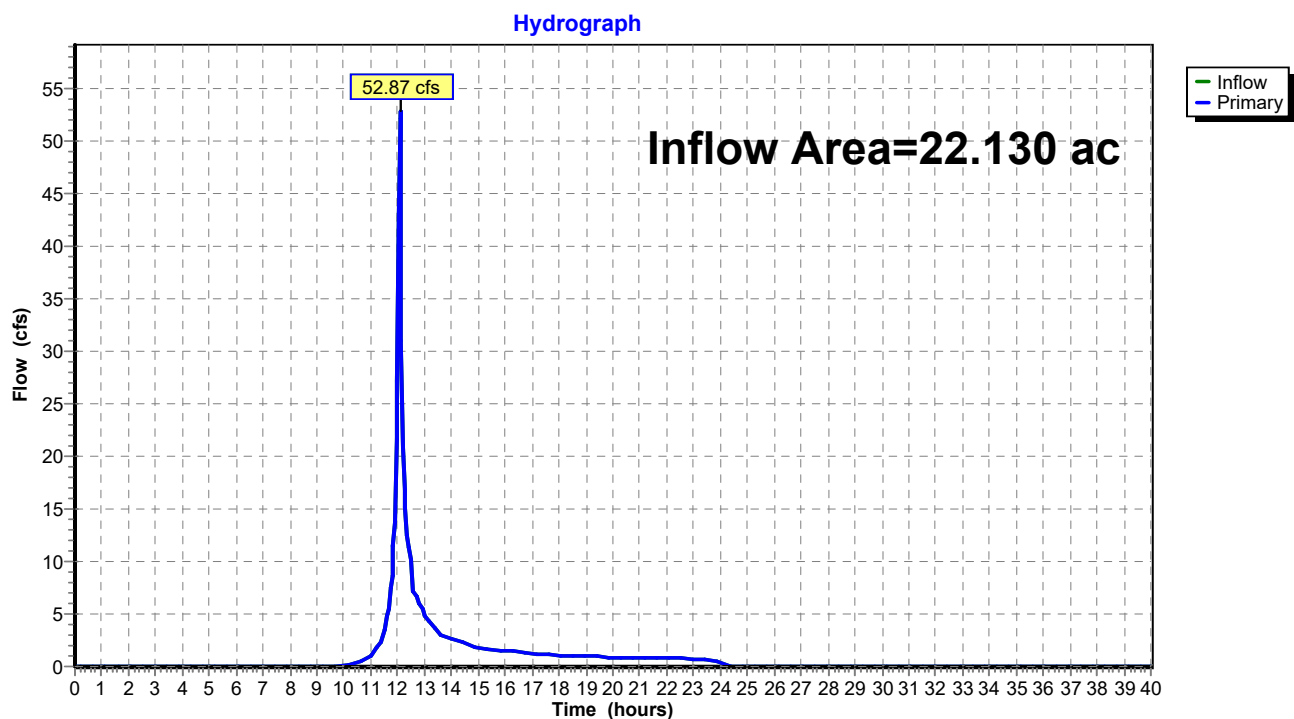
Hydrograph



Summary for Link XDA-3: Existing Drainage Area #3

Inflow Area = 22.130 ac, 0.00% Impervious, Inflow Depth = 1.62" for Future 2 yr event
Inflow = 52.87 cfs @ 12.09 hrs, Volume= 2.996 af
Primary = 52.87 cfs @ 12.09 hrs, Volume= 2.996 af, Atten= 0%, Lag= 0.0 min
Routed to nonexistent node DP-2

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

Link XDA-3: Existing Drainage Area #3

Summary for Subcatchment X-3P: XDA-3 (pervious)

Runoff = 103.91 cfs @ 12.09 hrs, Volume= 5.932 af, Depth= 3.22"
Routed to Link XDA-3 : Existing Drainage Area #3

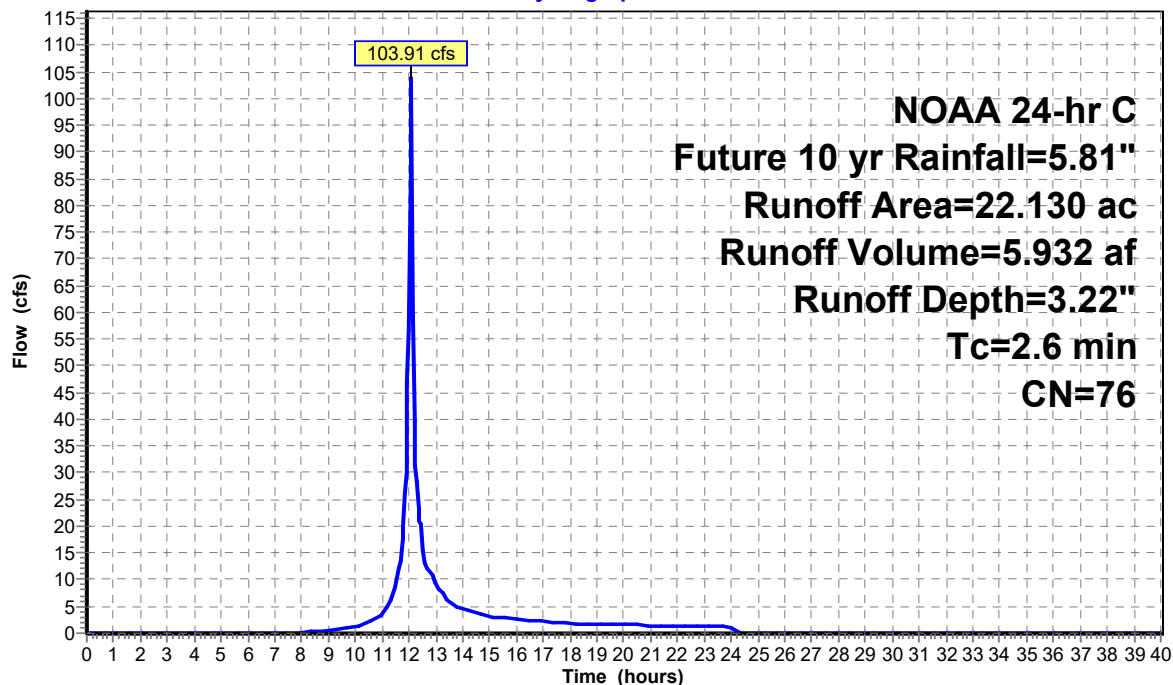
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 10 yr Rainfall=5.81"

Area (ac)	CN	Description
6.110	70	Woods, Good, HSG C
0.900	71	Row crops, C&T, Good, HSG B
15.120	78	Row crops, C&T, Good, HSG C
22.130	76	Weighted Average
22.130		100.00% Pervious Area

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

Subcatchment X-3P: XDA-3 (pervious)

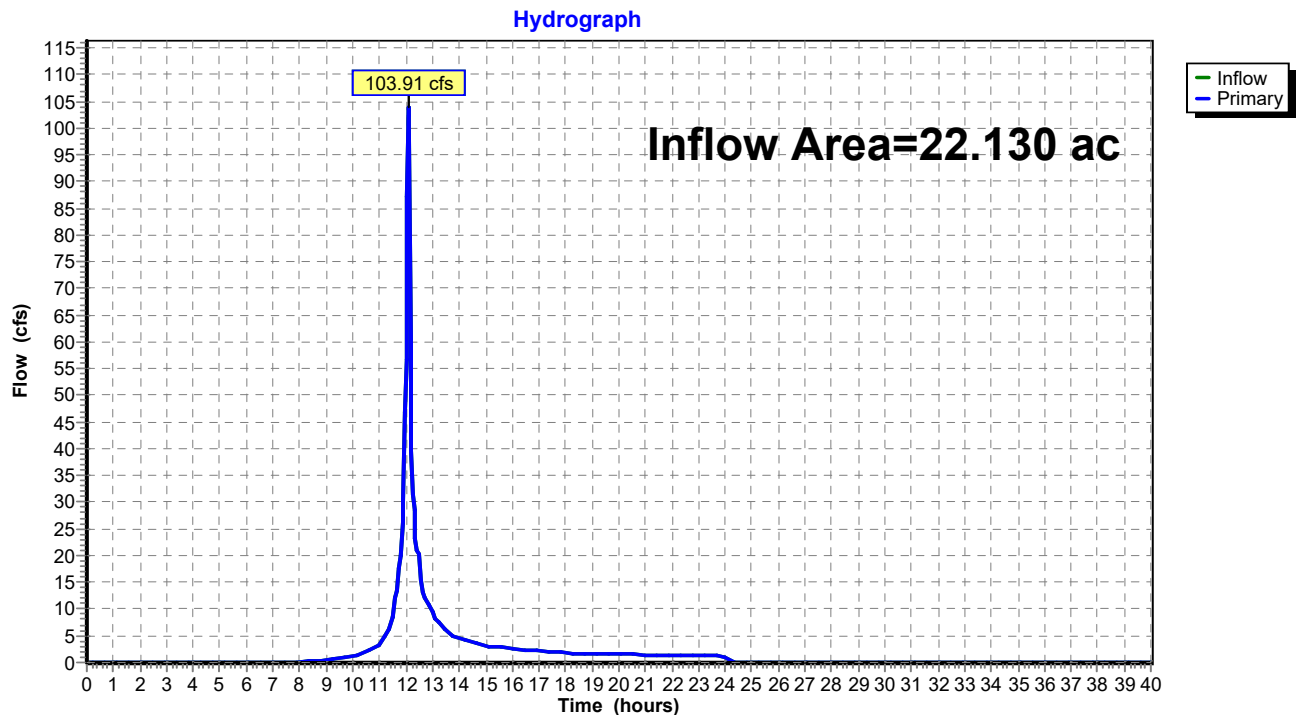
Hydrograph



Summary for Link XDA-3: Existing Drainage Area #3

Inflow Area = 22.130 ac, 0.00% Impervious, Inflow Depth = 3.22" for Future 10 yr event
Inflow = 103.91 cfs @ 12.09 hrs, Volume= 5.932 af
Primary = 103.91 cfs @ 12.09 hrs, Volume= 5.932 af, Atten= 0%, Lag= 0.0 min
Routed to nonexistent node DP-2

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

Link XDA-3: Existing Drainage Area #3

Summary for Subcatchment X-3P: XDA-3 (pervious)

Runoff = 247.38 cfs @ 12.09 hrs, Volume= 14.727 af, Depth= 7.99"

Routed to Link XDA-3 : Existing Drainage Area #3

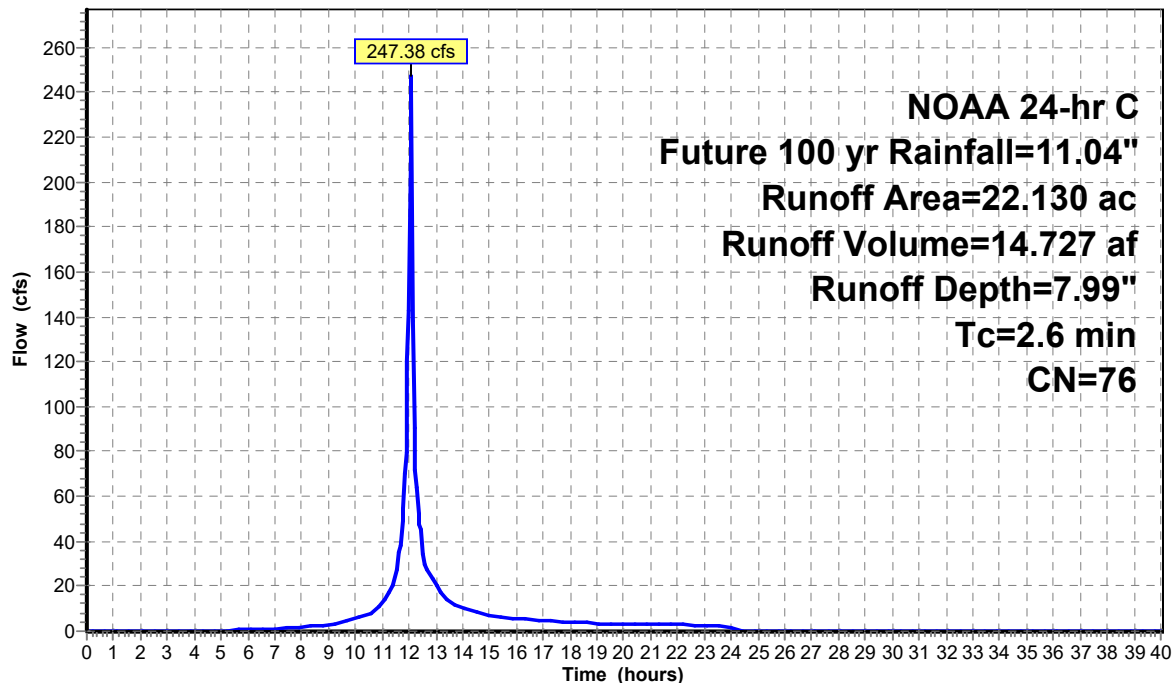
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 100 yr Rainfall=11.04"

Area (ac)	CN	Description
6.110	70	Woods, Good, HSG C
0.900	71	Row crops, C&T, Good, HSG B
15.120	78	Row crops, C&T, Good, HSG C
22.130	76	Weighted Average
22.130		100.00% Pervious Area

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

Subcatchment X-3P: XDA-3 (pervious)

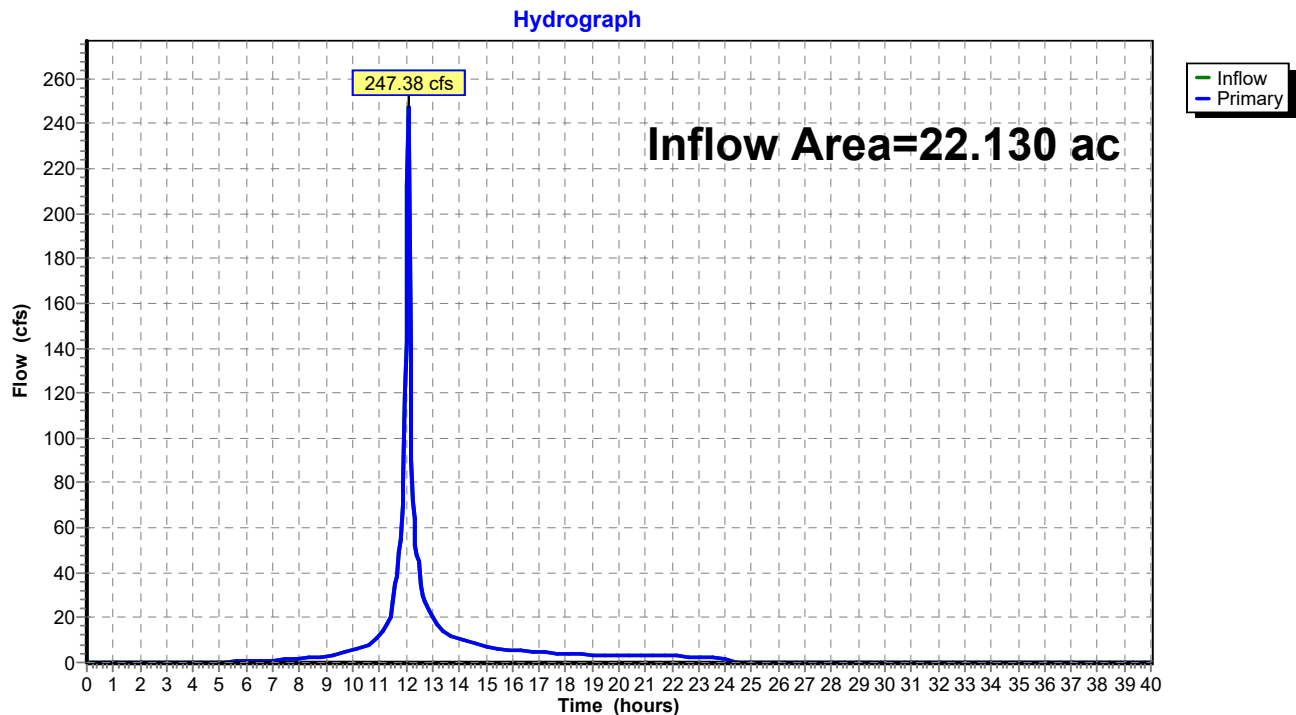
Hydrograph



Summary for Link XDA-3: Existing Drainage Area #3

Inflow Area = 22.130 ac, 0.00% Impervious, Inflow Depth = 7.99" for Future 100 yr event
Inflow = 247.38 cfs @ 12.09 hrs, Volume= 14.727 af
Primary = 247.38 cfs @ 12.09 hrs, Volume= 14.727 af, Atten= 0%, Lag= 0.0 min
Routed to nonexistent node DP-2

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

Link XDA-3: Existing Drainage Area #3

Summary for Subcatchment X-3P: XDA-3 (pervious)

Runoff = 40.04 cfs @ 12.09 hrs, Volume= 2.280 af, Depth= 1.24"

Routed to Link XDA-3 : Existing Drainage Area #3

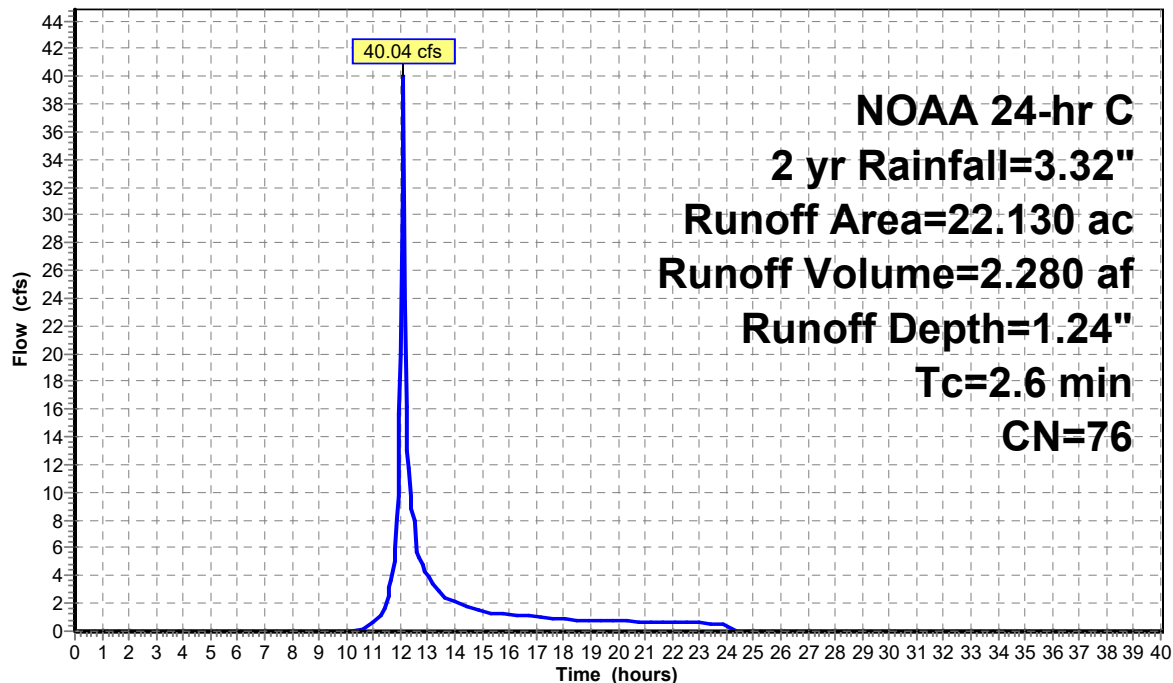
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C 2 yr Rainfall=3.32"

Area (ac)	CN	Description
6.110	70	Woods, Good, HSG C
0.900	71	Row crops, C&T, Good, HSG B
15.120	78	Row crops, C&T, Good, HSG C
22.130	76	Weighted Average
22.130		100.00% Pervious Area

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

Subcatchment X-3P: XDA-3 (pervious)

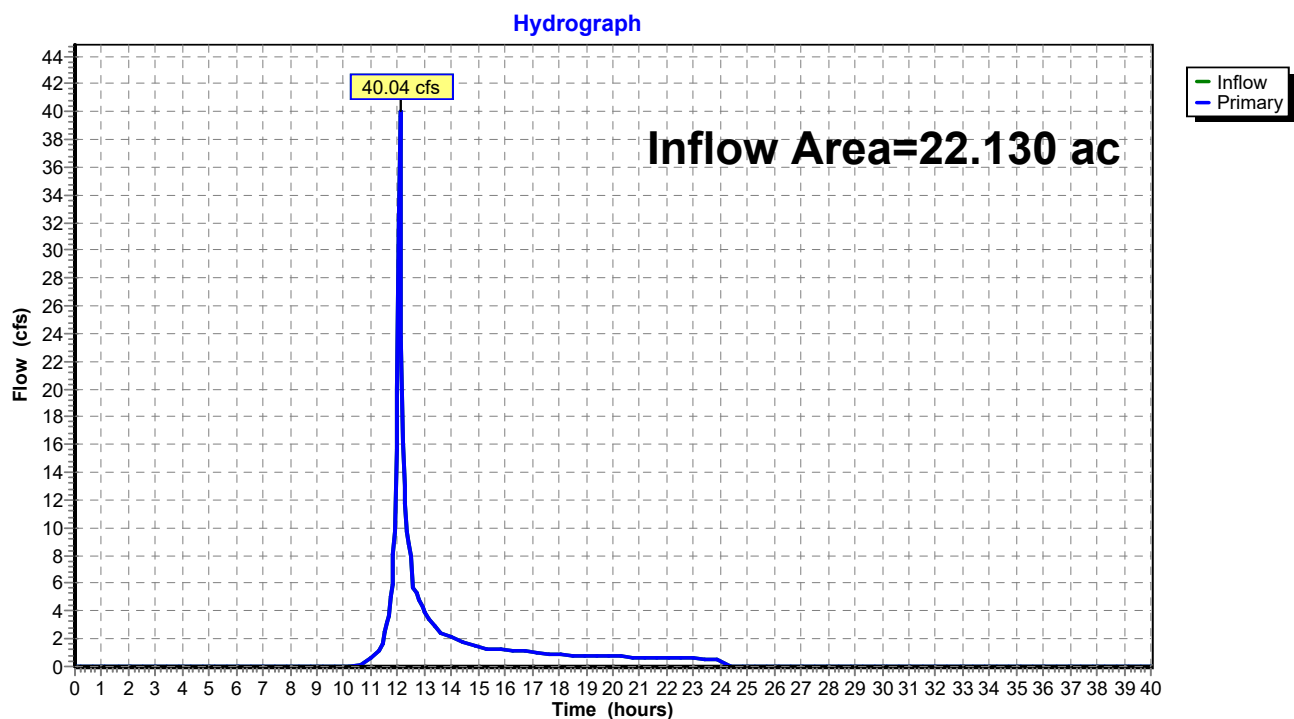
Hydrograph



Summary for Link XDA-3: Existing Drainage Area #3

Inflow Area = 22.130 ac, 0.00% Impervious, Inflow Depth = 1.24" for 2 yr event
Inflow = 40.04 cfs @ 12.09 hrs, Volume= 2.280 af
Primary = 40.04 cfs @ 12.09 hrs, Volume= 2.280 af, Atten= 0%, Lag= 0.0 min
Routed to nonexistent node DP-2

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

Link XDA-3: Existing Drainage Area #3

Summary for Subcatchment X-3P: XDA-3 (pervious)

Runoff = 82.34 cfs @ 12.09 hrs, Volume= 4.676 af, Depth= 2.54"
Routed to Link XDA-3 : Existing Drainage Area #3

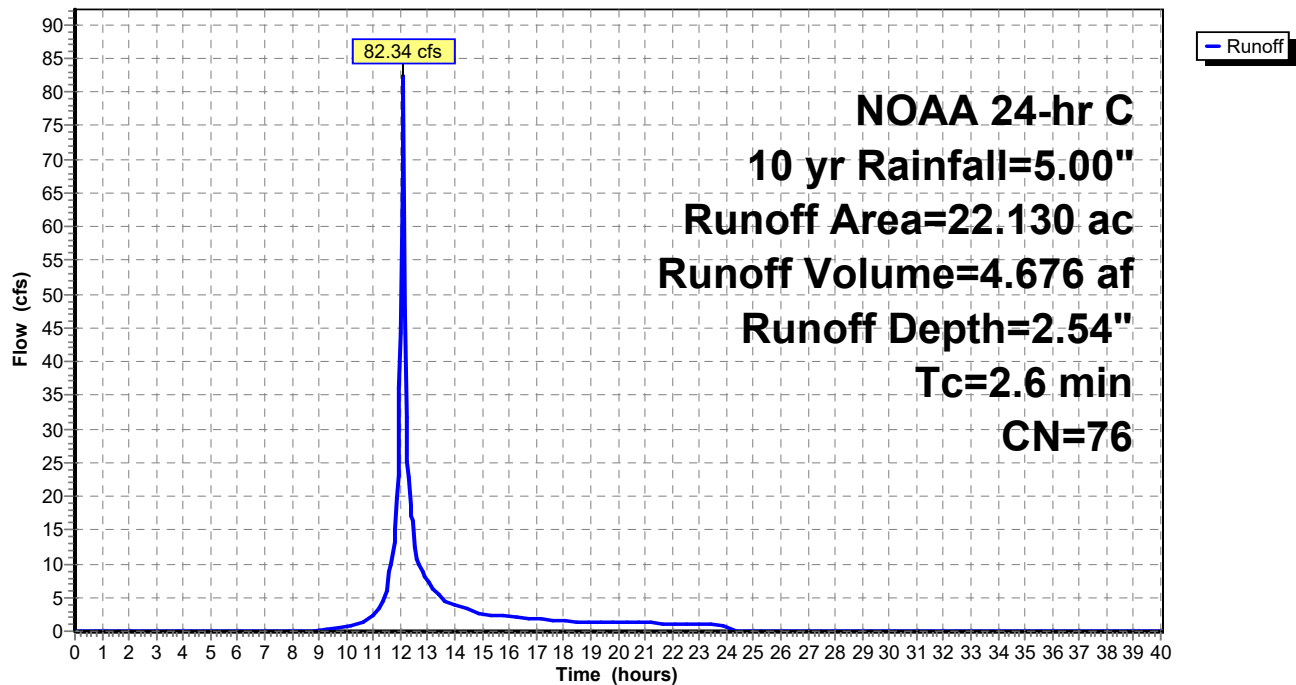
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C 10 yr Rainfall=5.00"

Area (ac)	CN	Description
6.110	70	Woods, Good, HSG C
0.900	71	Row crops, C&T, Good, HSG B
15.120	78	Row crops, C&T, Good, HSG C
22.130	76	Weighted Average
22.130		100.00% Pervious Area

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

Subcatchment X-3P: XDA-3 (pervious)

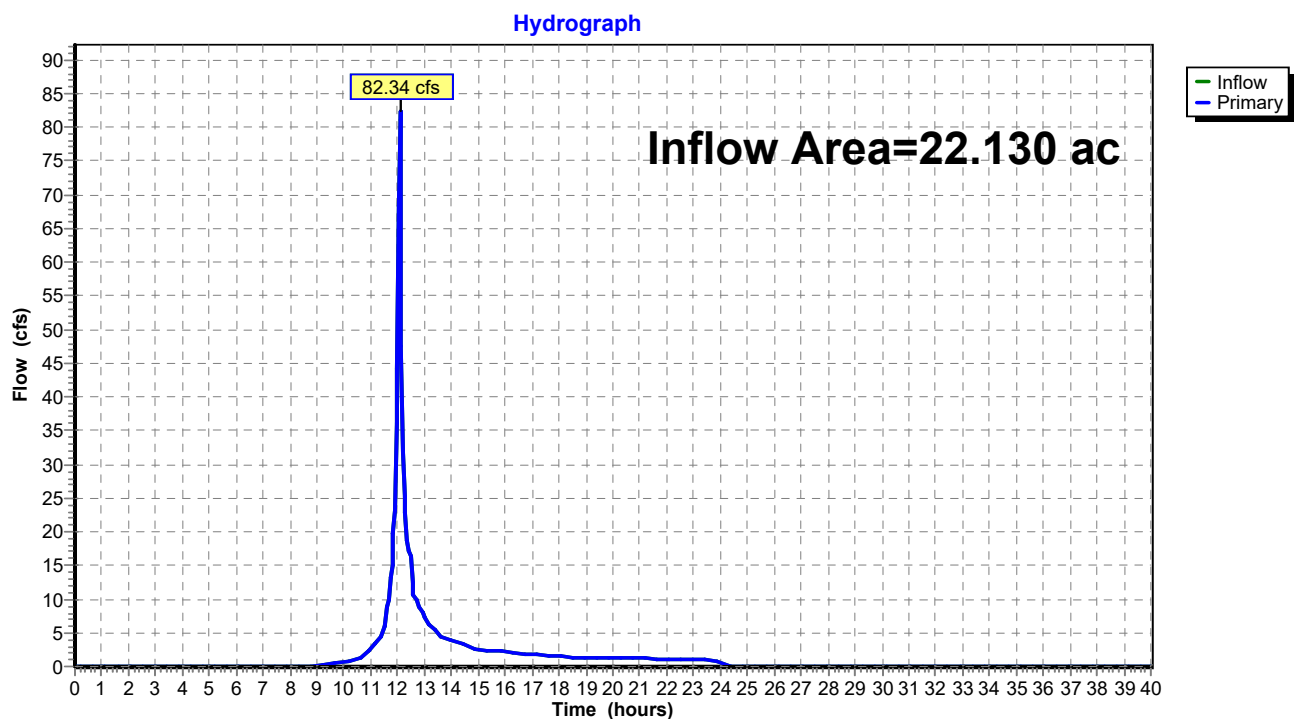
Hydrograph



Summary for Link XDA-3: Existing Drainage Area #3

Inflow Area = 22.130 ac, 0.00% Impervious, Inflow Depth = 2.54" for 10 yr event
Inflow = 82.34 cfs @ 12.09 hrs, Volume= 4.676 af
Primary = 82.34 cfs @ 12.09 hrs, Volume= 4.676 af, Atten= 0%, Lag= 0.0 min
Routed to nonexistent node DP-2

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

Link XDA-3: Existing Drainage Area #3

Summary for Subcatchment X-3P: XDA-3 (pervious)

Runoff = 170.78 cfs @ 12.09 hrs, Volume= 9.949 af, Depth= 5.40"
Routed to Link XDA-3 : Existing Drainage Area #3

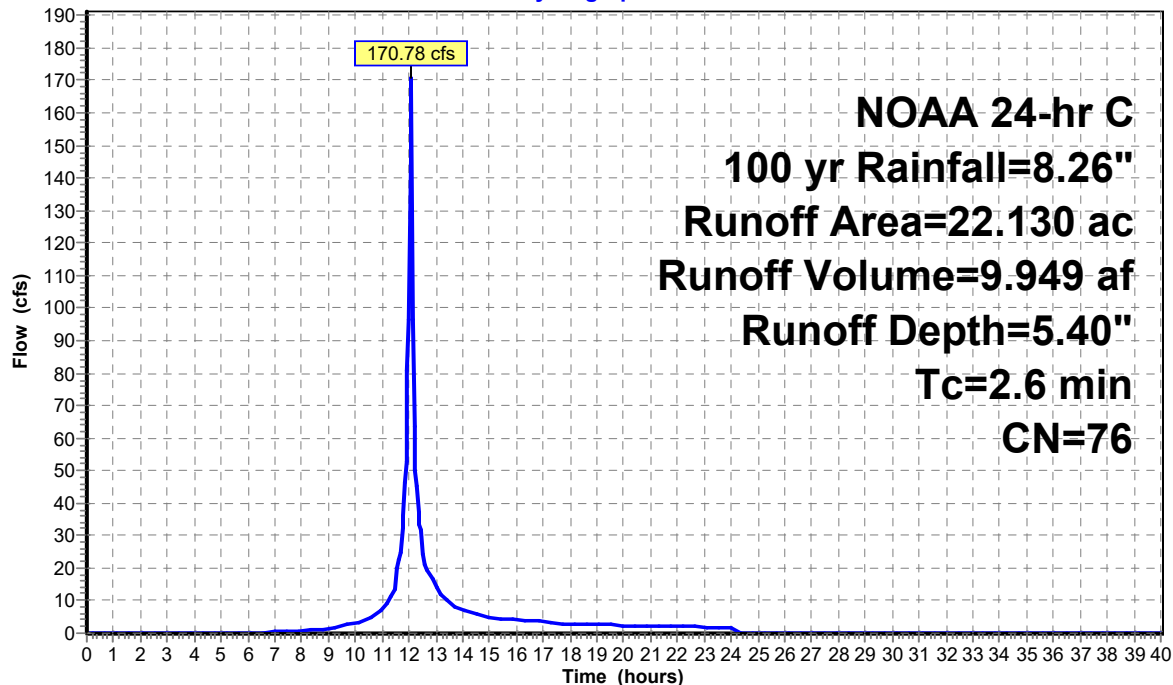
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C 100 yr Rainfall=8.26"

Area (ac)	CN	Description
6.110	70	Woods, Good, HSG C
0.900	71	Row crops, C&T, Good, HSG B
15.120	78	Row crops, C&T, Good, HSG C
22.130	76	Weighted Average
22.130		100.00% Pervious Area

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

Subcatchment X-3P: XDA-3 (pervious)

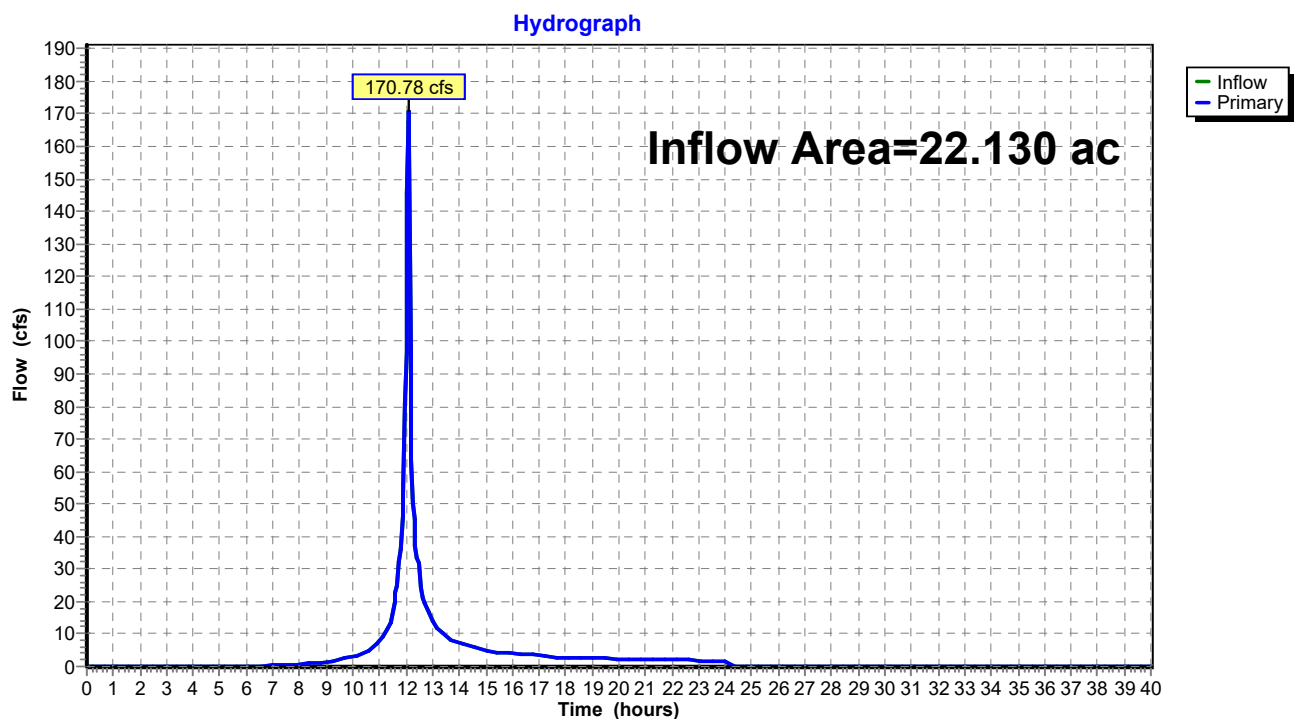
Hydrograph

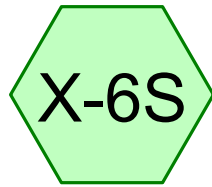


Summary for Link XDA-3: Existing Drainage Area #3

Inflow Area = 22.130 ac, 0.00% Impervious, Inflow Depth = 5.40" for 100 yr event
Inflow = 170.78 cfs @ 12.09 hrs, Volume= 9.949 af
Primary = 170.78 cfs @ 12.09 hrs, Volume= 9.949 af, Atten= 0%, Lag= 0.0 min
Routed to nonexistent node DP-2

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

Link XDA-3: Existing Drainage Area #3



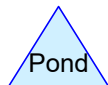
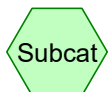
XDA-4 (pervious)



Existing Drainage Area
#4



XDA-4 (pervious)



Summary for Subcatchment X-4P: XDA-4 (pervious)

Runoff = 23.00 cfs @ 12.19 hrs, Volume= 1.931 af, Depth= 0.77"

Routed to Link XDA-4 : Existing Drainage Area #4

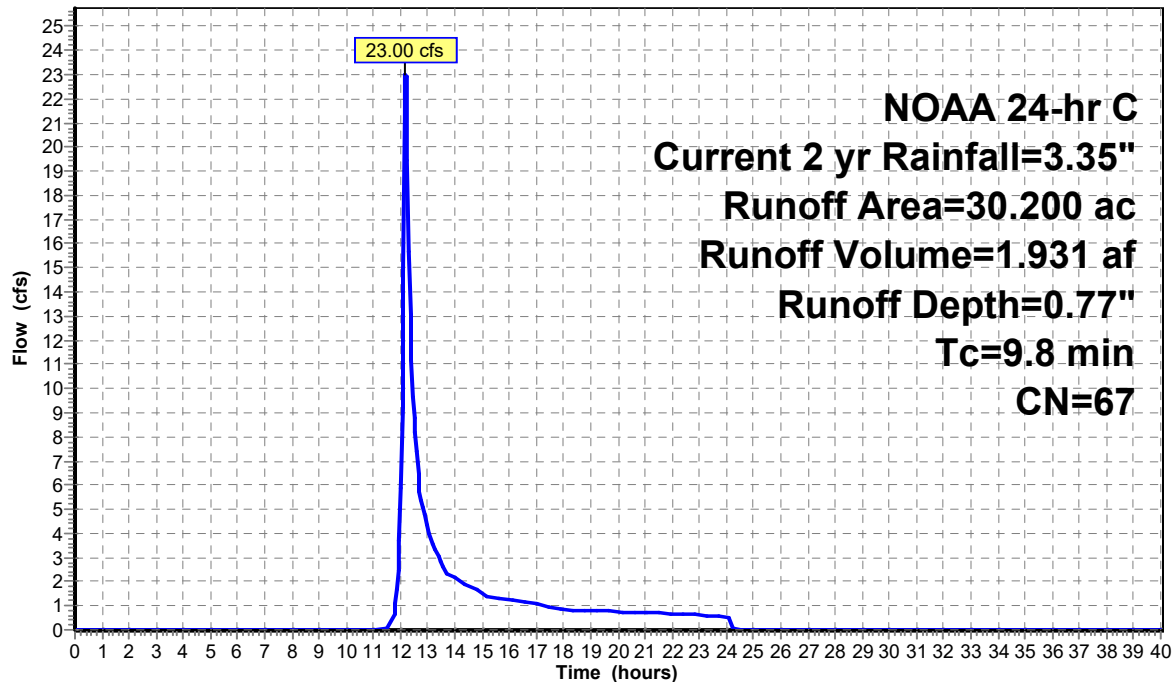
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
11.700	55	Woods, Good, HSG B
7.940	70	Woods, Good, HSG C
1.310	77	Woods, Good, HSG D
0.560	71	Row crops, C&T, Good, HSG B
8.690	78	Row crops, C&T, Good, HSG C
30.200	67	Weighted Average
30.200		100.00% Pervious Area

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

Subcatchment X-4P: XDA-4 (pervious)

Hydrograph



Summary for Subcatchment X-6S: XDA-4 (pervious)

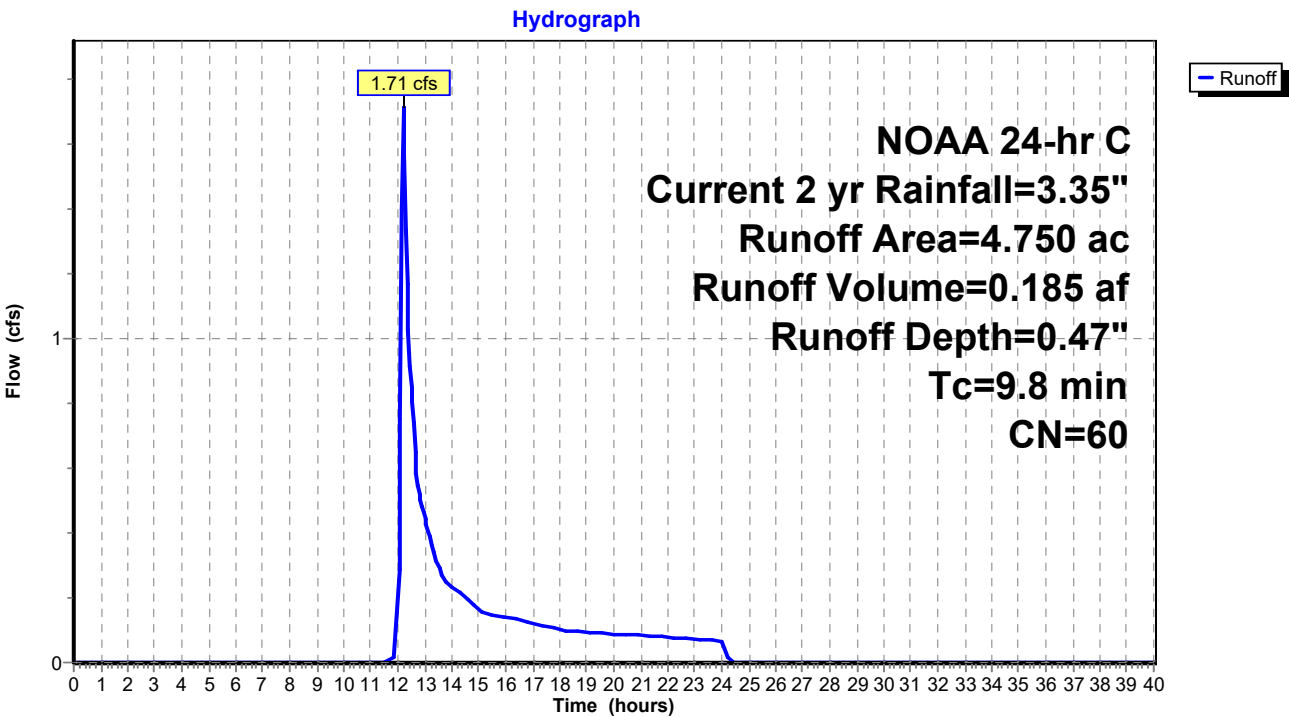
Runoff = 1.71 cfs @ 12.21 hrs, Volume= 0.185 af, Depth= 0.47"
Routed to Link XDA-4 : Existing Drainage Area #4

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
3.240	55	Woods, Good, HSG B
1.510	70	Woods, Good, HSG C
4.750	60	Weighted Average
4.750		100.00% Pervious Area

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

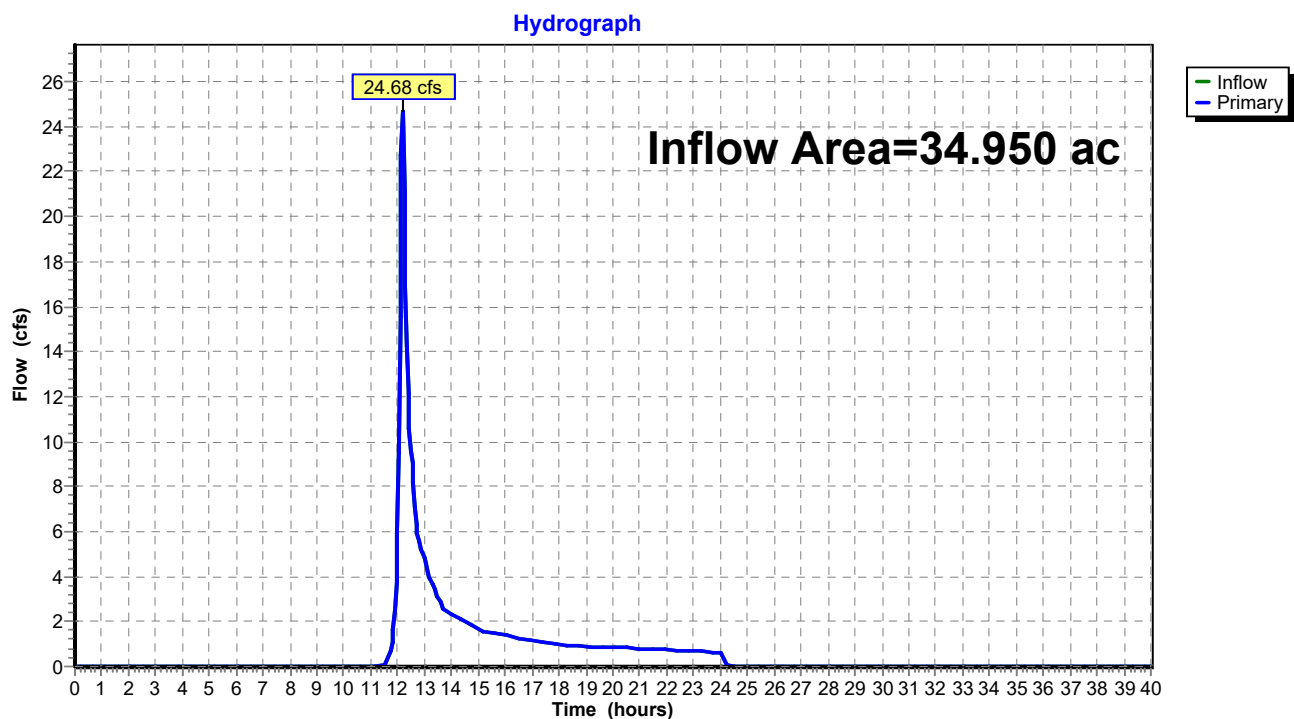
Subcatchment X-6S: XDA-4 (pervious)



Summary for Link XDA-4: Existing Drainage Area #4

Inflow Area = 34.950 ac, 0.00% Impervious, Inflow Depth = 0.73" for Current 2 yr event
Inflow = 24.68 cfs @ 12.19 hrs, Volume= 2.116 af
Primary = 24.68 cfs @ 12.19 hrs, Volume= 2.116 af, Atten= 0%, Lag= 0.0 min
Routed to nonexistent node DP-2

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

Link XDA-4: Existing Drainage Area #4

Summary for Subcatchment X-4P: XDA-4 (pervious)

Runoff = 61.04 cfs @ 12.18 hrs, Volume= 4.661 af, Depth= 1.85"
Routed to Link XDA-4 : Existing Drainage Area #4

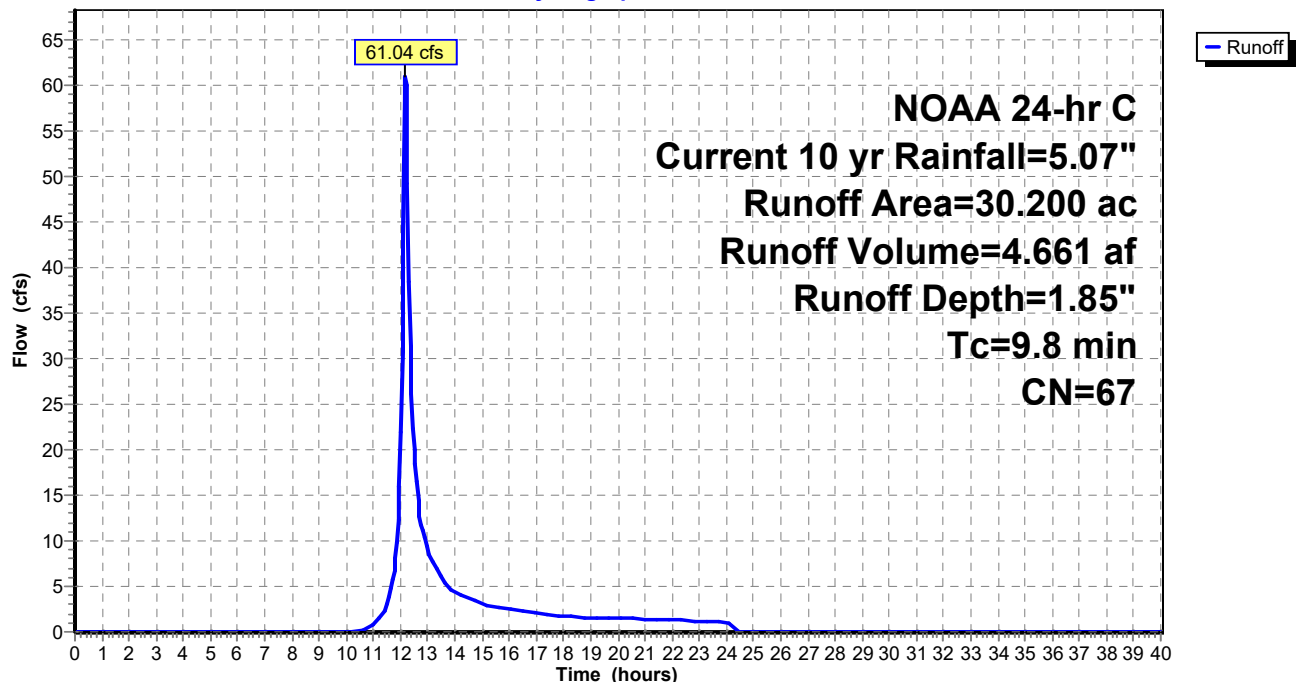
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 10 yr Rainfall=5.07"

Area (ac)	CN	Description
11.700	55	Woods, Good, HSG B
7.940	70	Woods, Good, HSG C
1.310	77	Woods, Good, HSG D
0.560	71	Row crops, C&T, Good, HSG B
8.690	78	Row crops, C&T, Good, HSG C
30.200	67	Weighted Average
30.200		100.00% Pervious Area

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

Subcatchment X-4P: XDA-4 (pervious)

Hydrograph



Summary for Subcatchment X-6S: XDA-4 (pervious)

Runoff = 6.59 cfs @ 12.19 hrs, Volume= 0.531 af, Depth= 1.34"
 Routed to Link XDA-4 : Existing Drainage Area #4

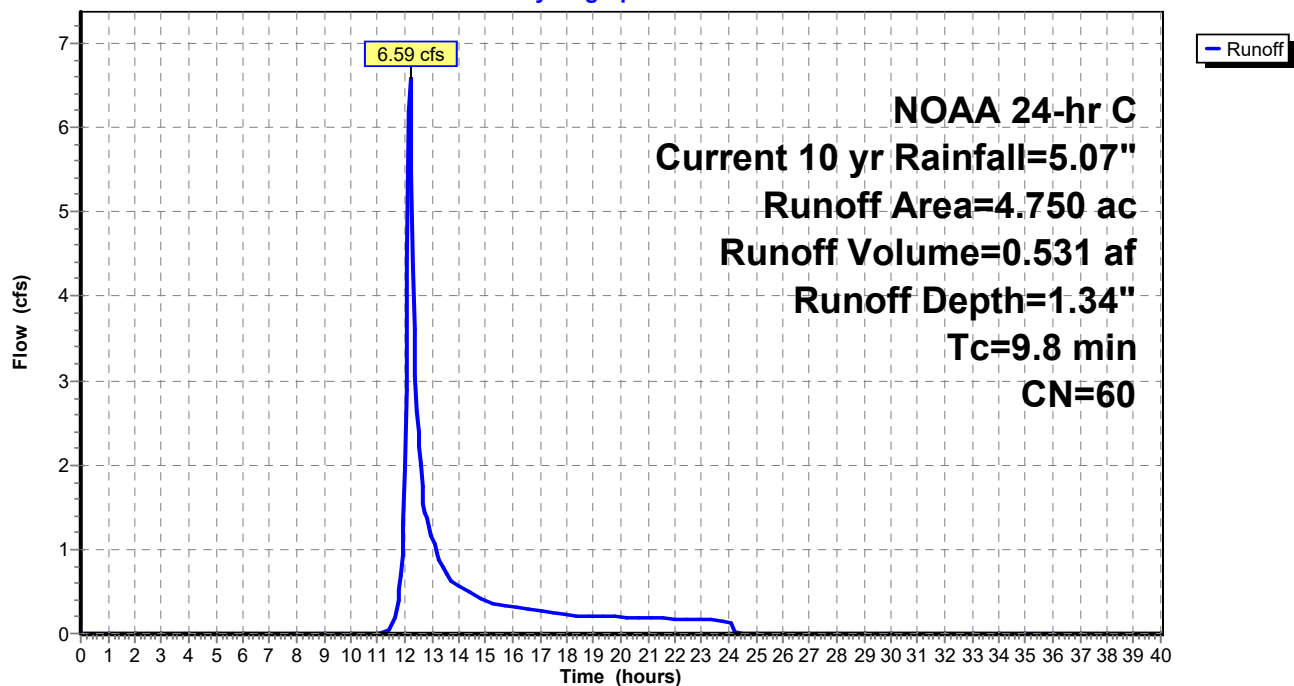
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.07"

Area (ac)	CN	Description
3.240	55	Woods, Good, HSG B
1.510	70	Woods, Good, HSG C
4.750	60	Weighted Average
4.750		100.00% Pervious Area

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

Subcatchment X-6S: XDA-4 (pervious)

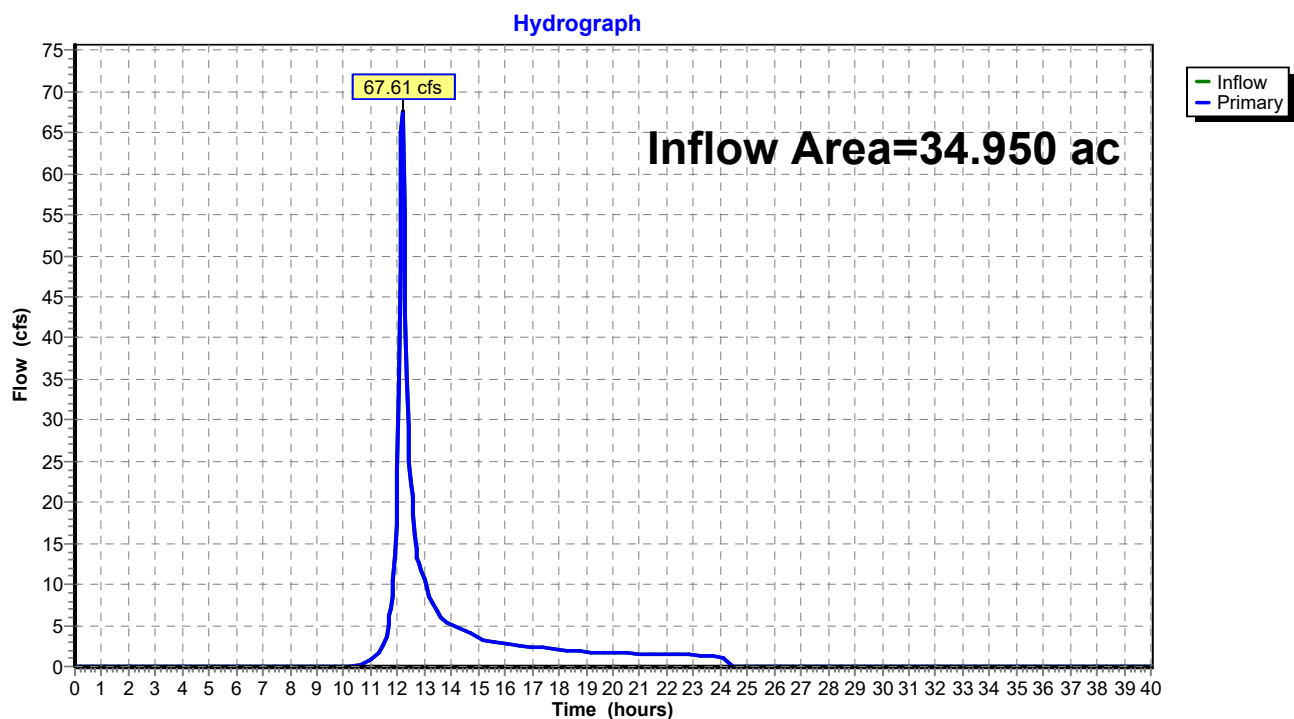
Hydrograph



Summary for Link XDA-4: Existing Drainage Area #4

Inflow Area = 34.950 ac, 0.00% Impervious, Inflow Depth = 1.78" for Current 10 yr event
Inflow = 67.61 cfs @ 12.18 hrs, Volume= 5.192 af
Primary = 67.61 cfs @ 12.18 hrs, Volume= 5.192 af, Atten= 0%, Lag= 0.0 min
Routed to nonexistent node DP-2

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

Link XDA-4: Existing Drainage Area #4

Summary for Subcatchment X-4P: XDA-4 (pervious)

Runoff = 151.23 cfs @ 12.17 hrs, Volume= 11.297 af, Depth= 4.49"

Routed to Link XDA-4 : Existing Drainage Area #4

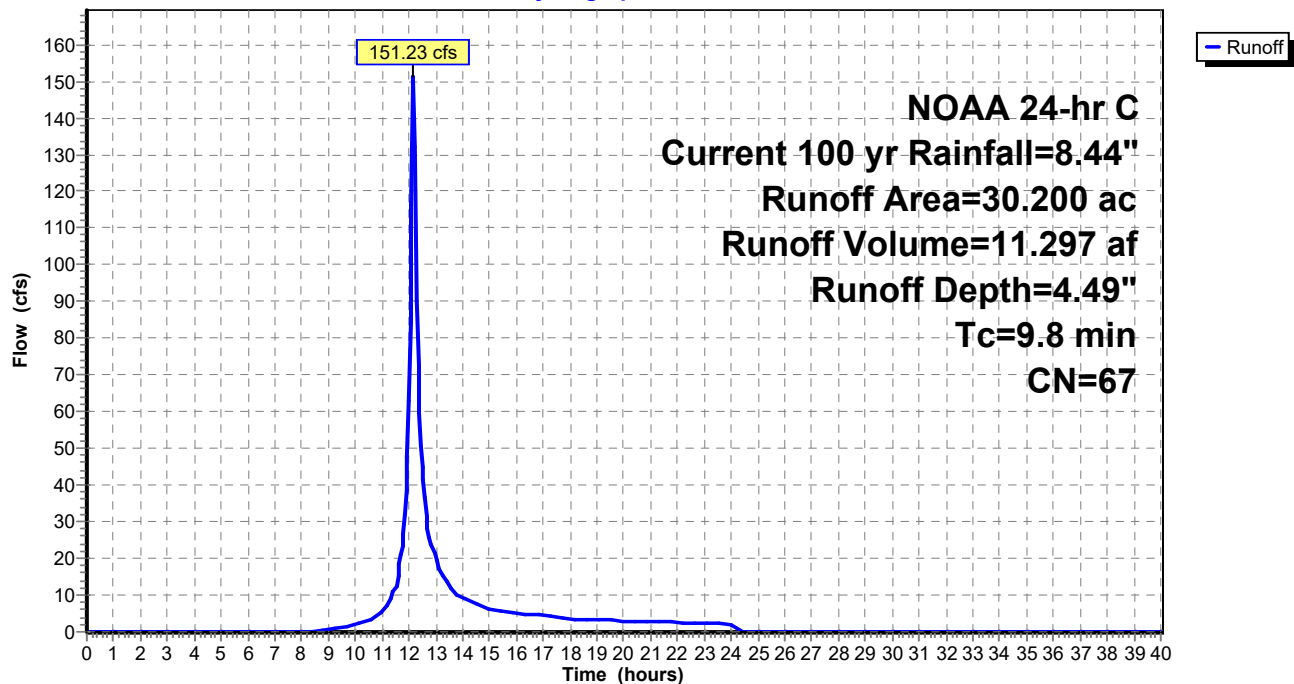
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 100 yr Rainfall=8.44"

Area (ac)	CN	Description
11.700	55	Woods, Good, HSG B
7.940	70	Woods, Good, HSG C
1.310	77	Woods, Good, HSG D
0.560	71	Row crops, C&T, Good, HSG B
8.690	78	Row crops, C&T, Good, HSG C
30.200	67	Weighted Average
30.200		100.00% Pervious Area

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

Subcatchment X-4P: XDA-4 (pervious)

Hydrograph



Summary for Subcatchment X-6S: XDA-4 (pervious)

Runoff = 19.28 cfs @ 12.18 hrs, Volume= 1.451 af, Depth= 3.67"
 Routed to Link XDA-4 : Existing Drainage Area #4

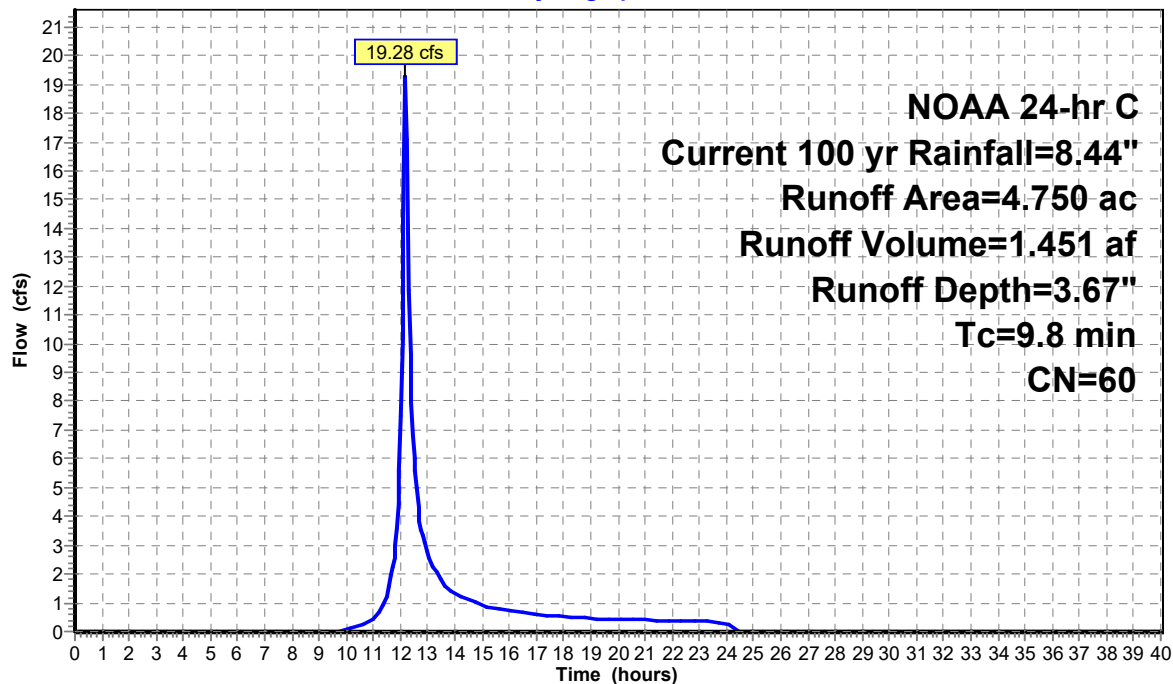
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 100 yr Rainfall=8.44"

Area (ac)	CN	Description
3.240	55	Woods, Good, HSG B
1.510	70	Woods, Good, HSG C
4.750	60	Weighted Average
4.750		100.00% Pervious Area

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

Subcatchment X-6S: XDA-4 (pervious)

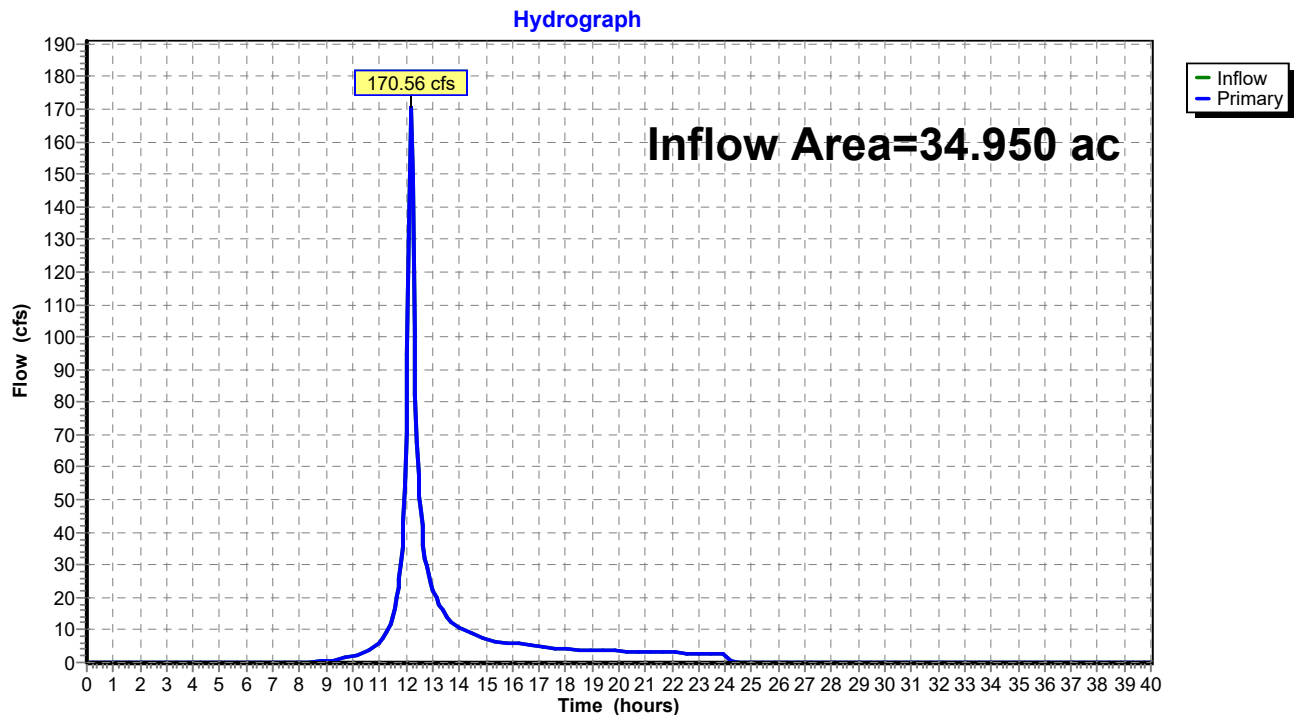
Hydrograph



Summary for Link XDA-4: Existing Drainage Area #4

Inflow Area = 34.950 ac, 0.00% Impervious, Inflow Depth = 4.38" for Current 100 yr event
Inflow = 170.56 cfs @ 12.17 hrs, Volume= 12.749 af
Primary = 170.56 cfs @ 12.17 hrs, Volume= 12.749 af, Atten= 0%, Lag= 0.0 min
Routed to nonexistent node DP-2

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

Link XDA-4: Existing Drainage Area #4

Summary for Subcatchment X-4P: XDA-4 (pervious)

Runoff = 33.12 cfs @ 12.19 hrs, Volume= 2.652 af, Depth= 1.05"
Routed to Link XDA-4 : Existing Drainage Area #4

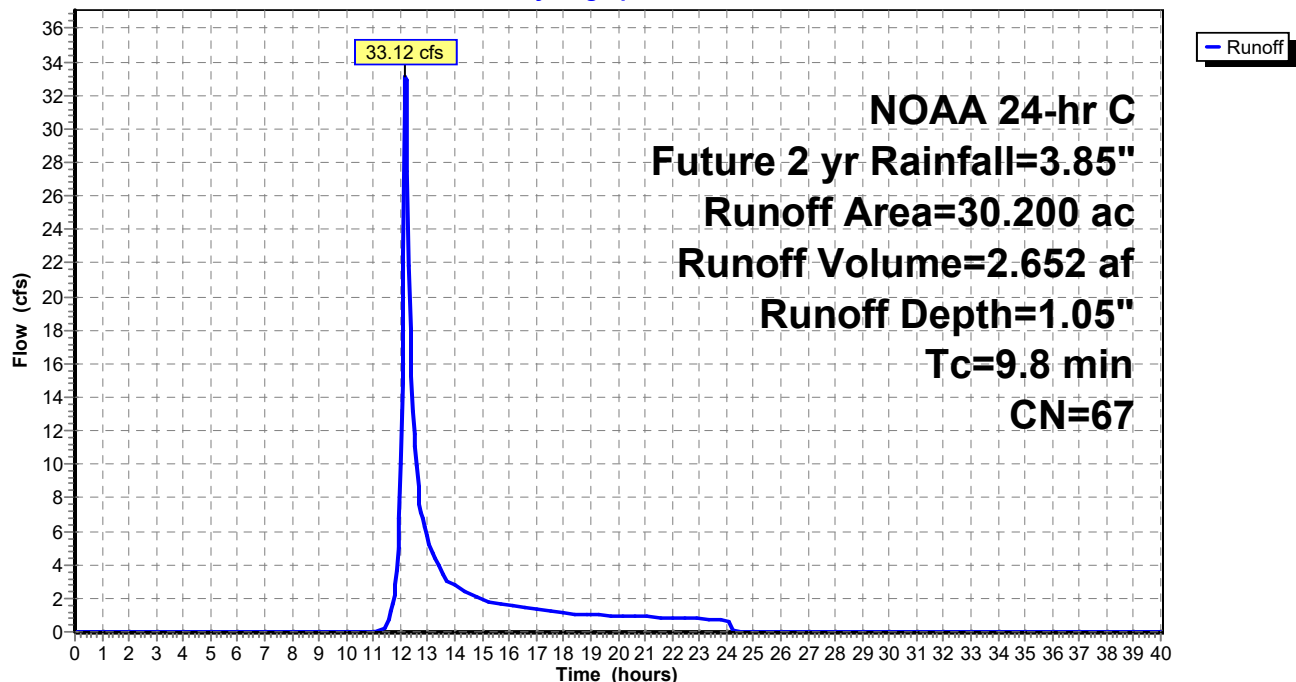
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 2 yr Rainfall=3.85"

Area (ac)	CN	Description
11.700	55	Woods, Good, HSG B
7.940	70	Woods, Good, HSG C
1.310	77	Woods, Good, HSG D
0.560	71	Row crops, C&T, Good, HSG B
8.690	78	Row crops, C&T, Good, HSG C
30.200	67	Weighted Average
30.200		100.00% Pervious Area

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

Subcatchment X-4P: XDA-4 (pervious)

Hydrograph



Summary for Subcatchment X-6S: XDA-4 (pervious)

Runoff = 2.95 cfs @ 12.20 hrs, Volume= 0.273 af, Depth= 0.69"

Routed to Link XDA-4 : Existing Drainage Area #4

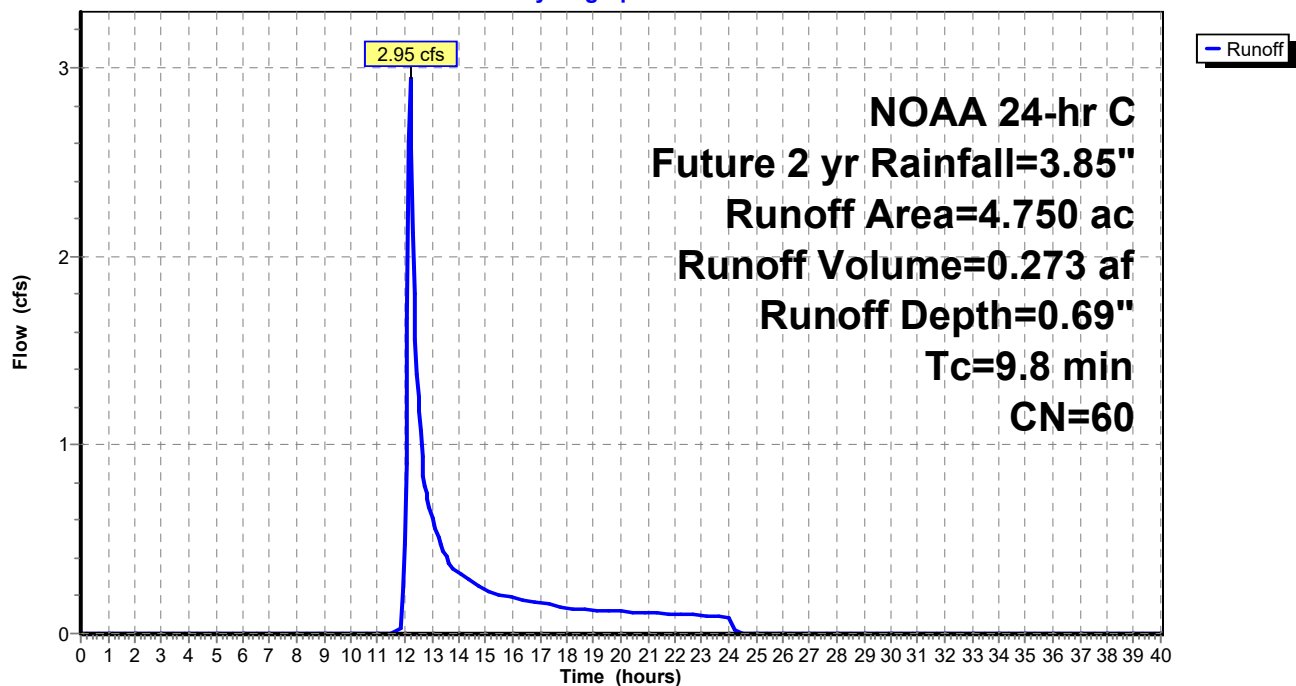
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 2 yr Rainfall=3.85"

Area (ac)	CN	Description
3.240	55	Woods, Good, HSG B
1.510	70	Woods, Good, HSG C
4.750	60	Weighted Average
4.750		100.00% Pervious Area

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

Subcatchment X-6S: XDA-4 (pervious)

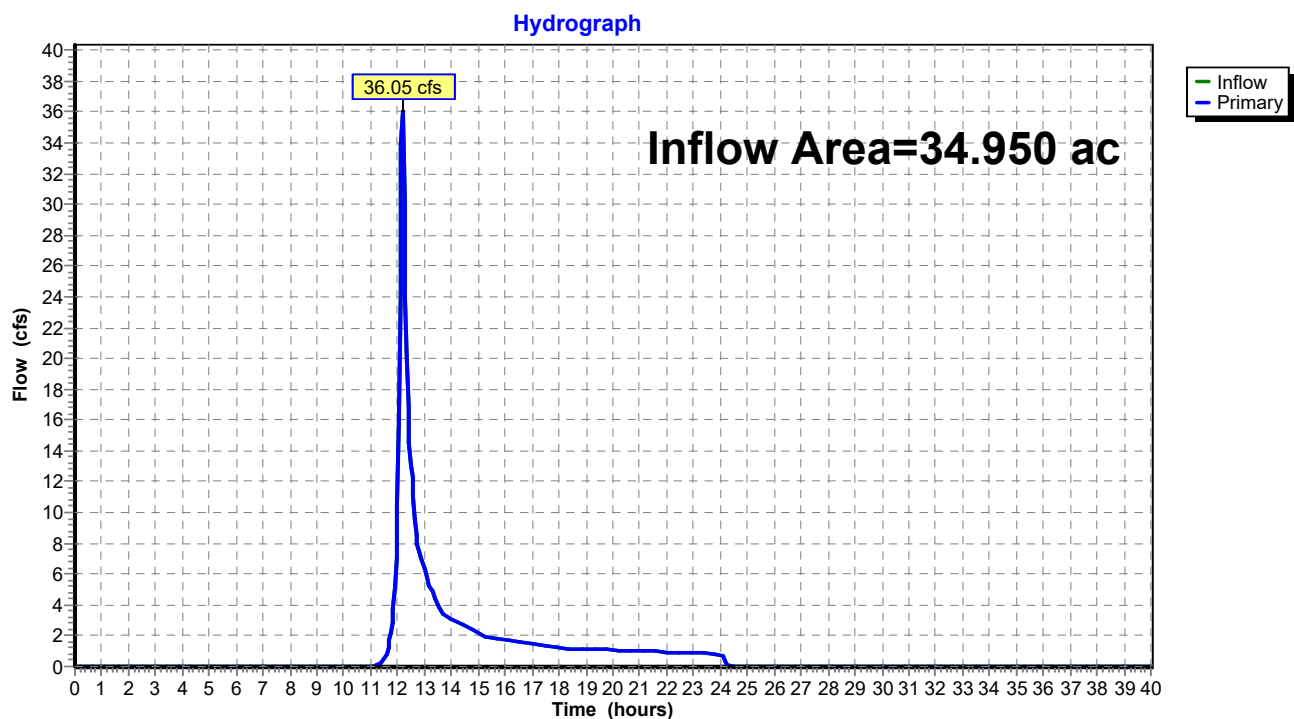
Hydrograph



Summary for Link XDA-4: Existing Drainage Area #4

Inflow Area = 34.950 ac, 0.00% Impervious, Inflow Depth = 1.00" for Future 2 yr event
Inflow = 36.05 cfs @ 12.19 hrs, Volume= 2.925 af
Primary = 36.05 cfs @ 12.19 hrs, Volume= 2.925 af, Atten= 0%, Lag= 0.0 min
Routed to nonexistent node DP-2

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

Link XDA-4: Existing Drainage Area #4

Summary for Subcatchment X-4P: XDA-4 (pervious)

Runoff = 79.55 cfs @ 12.18 hrs, Volume= 6.009 af, Depth= 2.39"
Routed to Link XDA-4 : Existing Drainage Area #4

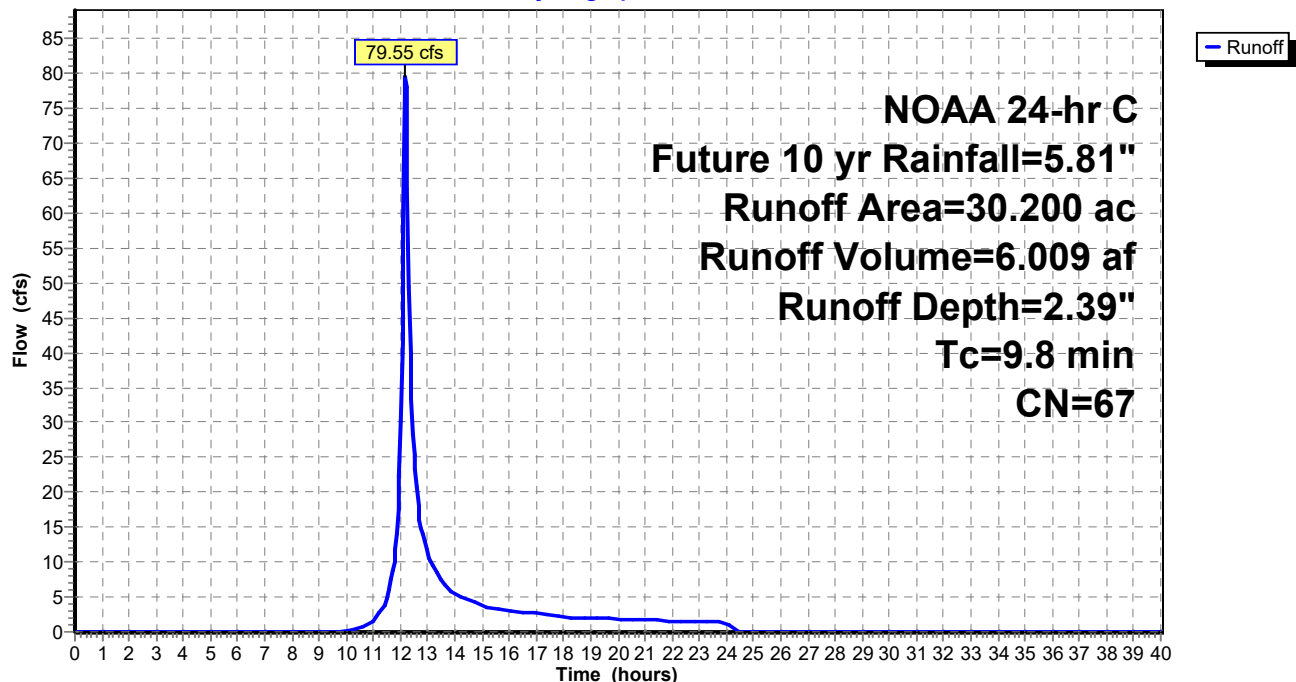
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 10 yr Rainfall=5.81"

Area (ac)	CN	Description
11.700	55	Woods, Good, HSG B
7.940	70	Woods, Good, HSG C
1.310	77	Woods, Good, HSG D
0.560	71	Row crops, C&T, Good, HSG B
8.690	78	Row crops, C&T, Good, HSG C
30.200	67	Weighted Average
30.200		100.00% Pervious Area

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

Subcatchment X-4P: XDA-4 (pervious)

Hydrograph



Summary for Subcatchment X-6S: XDA-4 (pervious)

Runoff = 9.11 cfs @ 12.18 hrs, Volume= 0.712 af, Depth= 1.80"
 Routed to Link XDA-4 : Existing Drainage Area #4

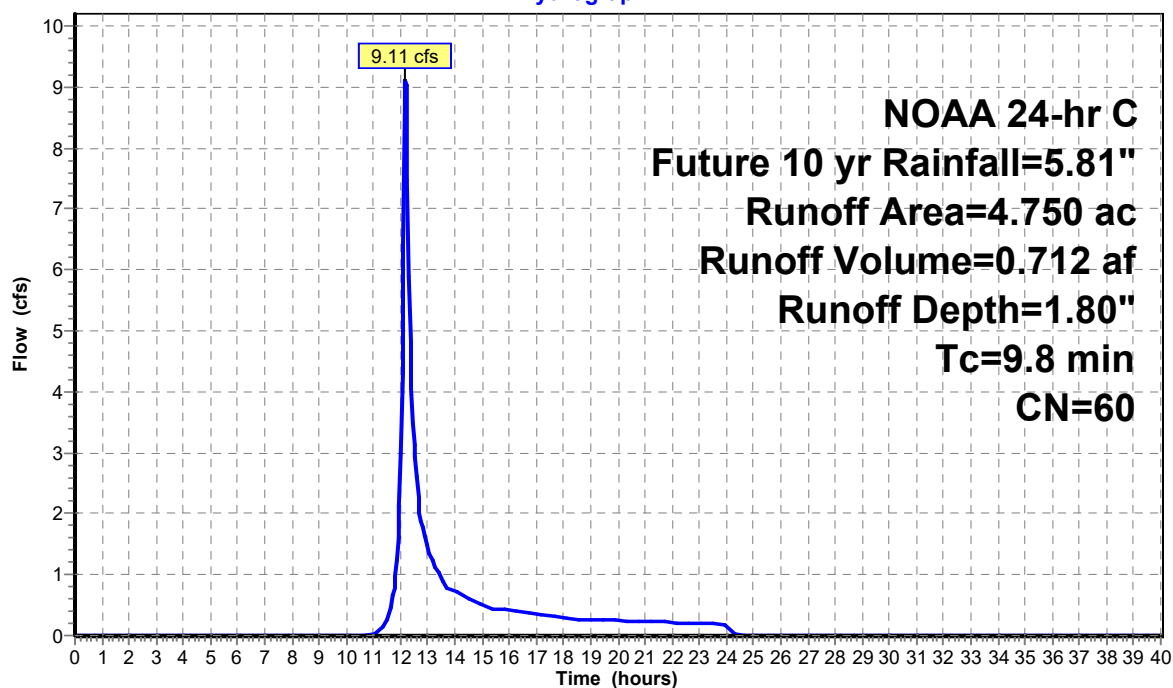
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 10 yr Rainfall=5.81"

Area (ac)	CN	Description
3.240	55	Woods, Good, HSG B
1.510	70	Woods, Good, HSG C
4.750	60	Weighted Average
4.750		100.00% Pervious Area

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

Subcatchment X-6S: XDA-4 (pervious)

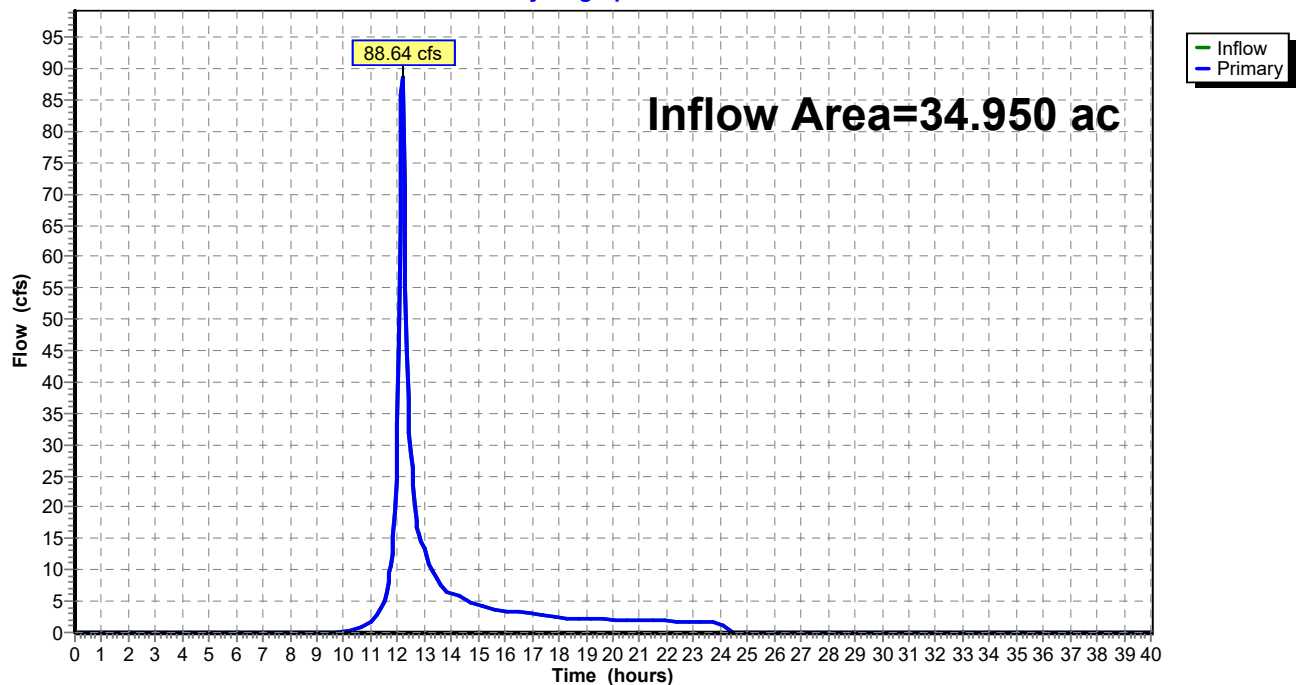
Hydrograph



Summary for Link XDA-4: Existing Drainage Area #4

Inflow Area = 34.950 ac, 0.00% Impervious, Inflow Depth = 2.31" for Future 10 yr event
Inflow = 88.64 cfs @ 12.18 hrs, Volume= 6.721 af
Primary = 88.64 cfs @ 12.18 hrs, Volume= 6.721 af, Atten= 0%, Lag= 0.0 min
Routed to nonexistent node DP-2

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

Link XDA-4: Existing Drainage Area #4**Hydrograph**

Summary for Subcatchment X-4P: XDA-4 (pervious)

Runoff = 225.90 cfs @ 12.17 hrs, Volume= 16.985 af, Depth= 6.75"

Routed to Link XDA-4 : Existing Drainage Area #4

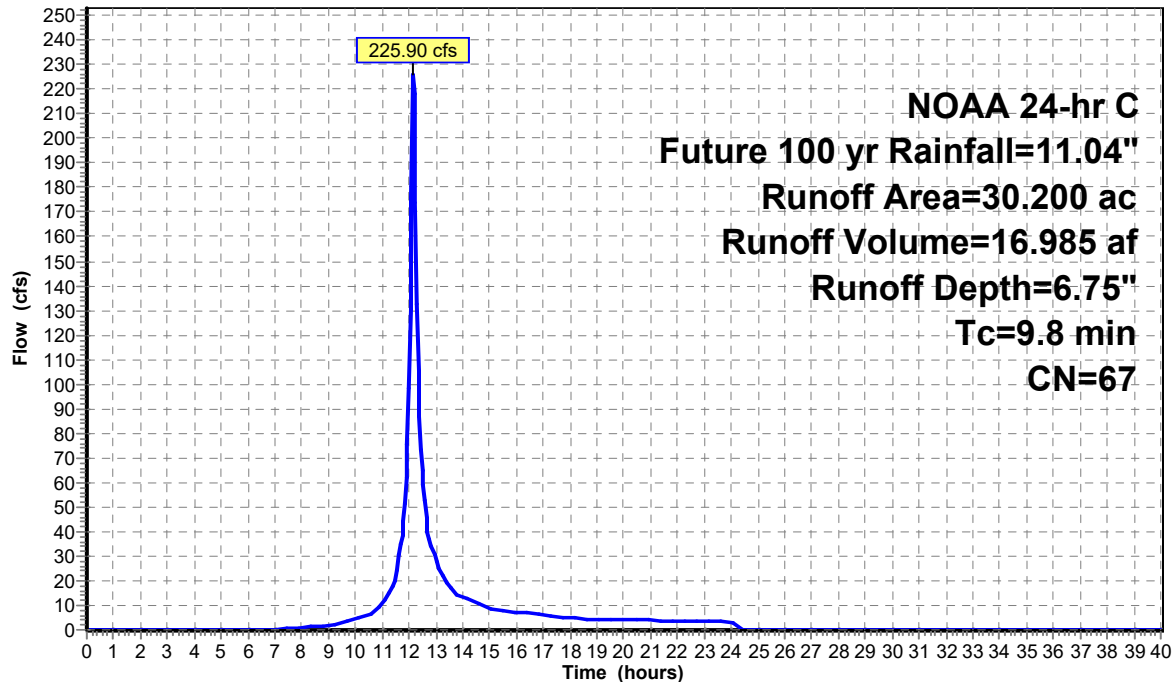
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 100 yr Rainfall=11.04"

Area (ac)	CN	Description
11.700	55	Woods, Good, HSG B
7.940	70	Woods, Good, HSG C
1.310	77	Woods, Good, HSG D
0.560	71	Row crops, C&T, Good, HSG B
8.690	78	Row crops, C&T, Good, HSG C
30.200	67	Weighted Average
30.200		100.00% Pervious Area

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

Subcatchment X-4P: XDA-4 (pervious)

Hydrograph



Summary for Subcatchment X-6S: XDA-4 (pervious)

Runoff = 30.50 cfs @ 12.17 hrs, Volume= 2.278 af, Depth= 5.75"
 Routed to Link XDA-4 : Existing Drainage Area #4

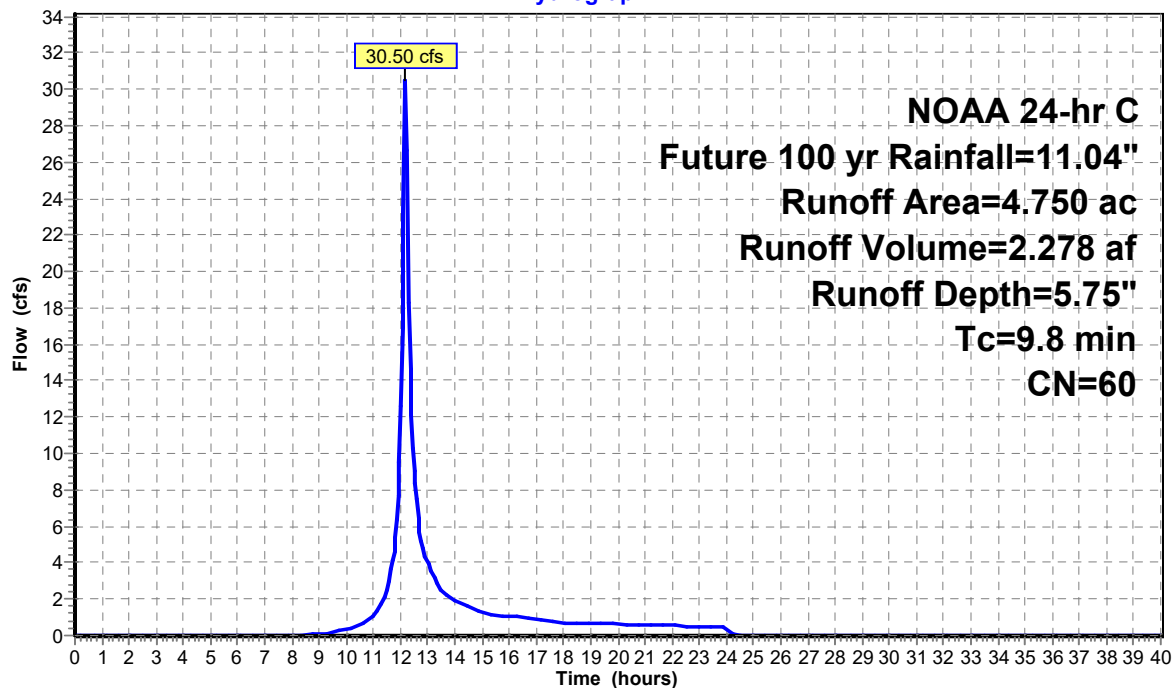
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 100 yr Rainfall=11.04"

Area (ac)	CN	Description
3.240	55	Woods, Good, HSG B
1.510	70	Woods, Good, HSG C
4.750	60	Weighted Average
4.750		100.00% Pervious Area

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

Subcatchment X-6S: XDA-4 (pervious)

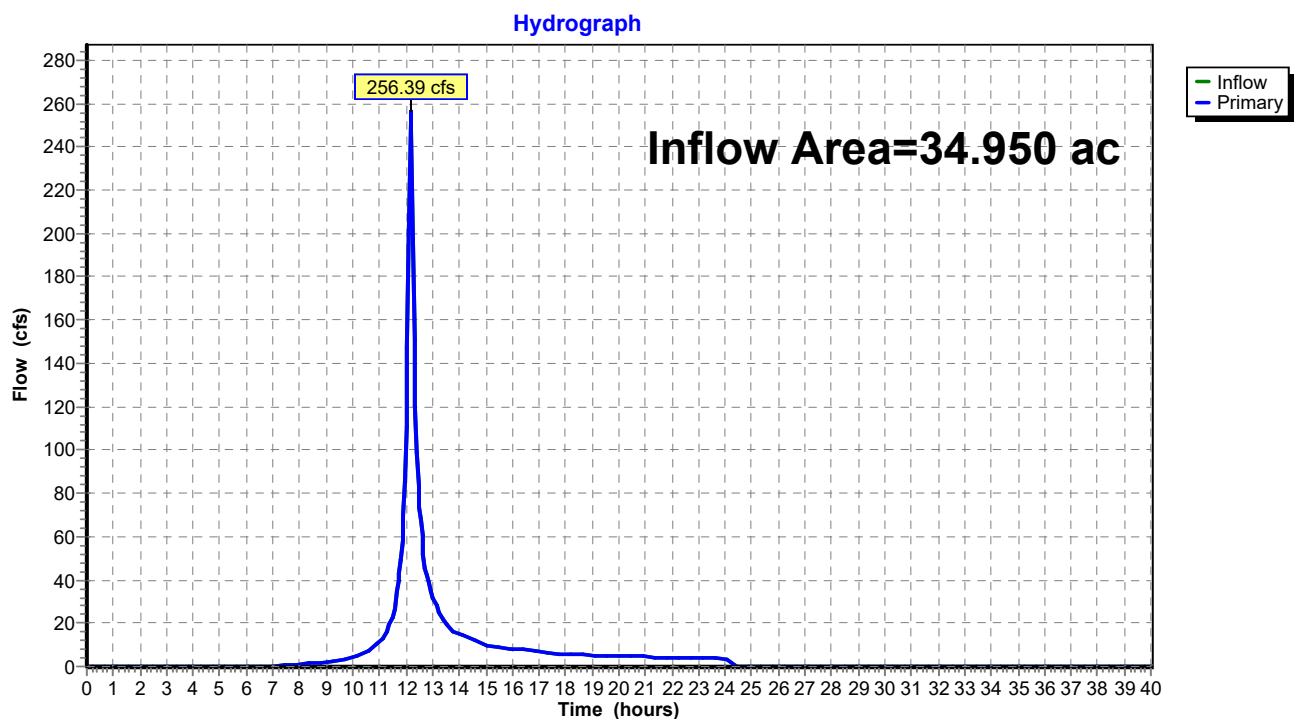
Hydrograph



Summary for Link XDA-4: Existing Drainage Area #4

Inflow Area = 34.950 ac, 0.00% Impervious, Inflow Depth = 6.61" for Future 100 yr event
Inflow = 256.39 cfs @ 12.17 hrs, Volume= 19.263 af
Primary = 256.39 cfs @ 12.17 hrs, Volume= 19.263 af, Atten= 0%, Lag= 0.0 min
Routed to nonexistent node DP-2

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

Link XDA-4: Existing Drainage Area #4

Summary for Subcatchment X-4P: XDA-4 (pervious)

Runoff = 22.42 cfs @ 12.19 hrs, Volume= 1.890 af, Depth= 0.75"

Routed to Link XDA-4 : Existing Drainage Area #4

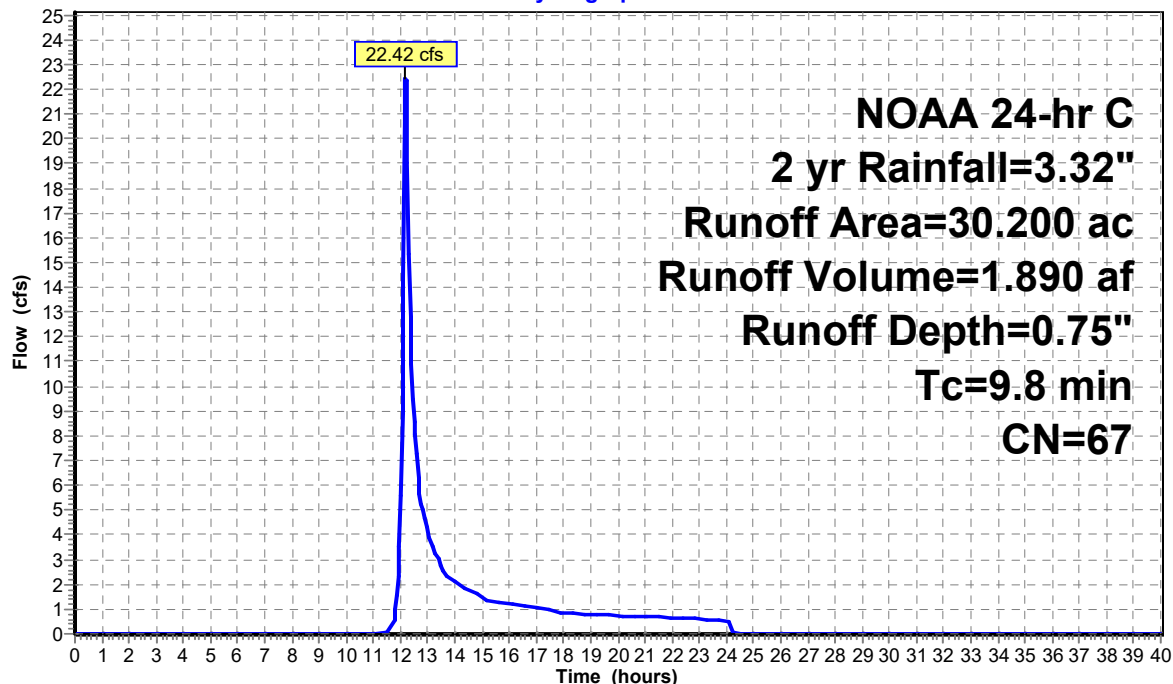
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C 2 yr Rainfall=3.32"

Area (ac)	CN	Description
11.700	55	Woods, Good, HSG B
7.940	70	Woods, Good, HSG C
1.310	77	Woods, Good, HSG D
0.560	71	Row crops, C&T, Good, HSG B
8.690	78	Row crops, C&T, Good, HSG C
30.200	67	Weighted Average
30.200		100.00% Pervious Area

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

Subcatchment X-4P: XDA-4 (pervious)

Hydrograph



Summary for Subcatchment X-6S: XDA-4 (pervious)

Runoff = 1.64 cfs @ 12.21 hrs, Volume= 0.181 af, Depth= 0.46"
 Routed to Link XDA-4 : Existing Drainage Area #4

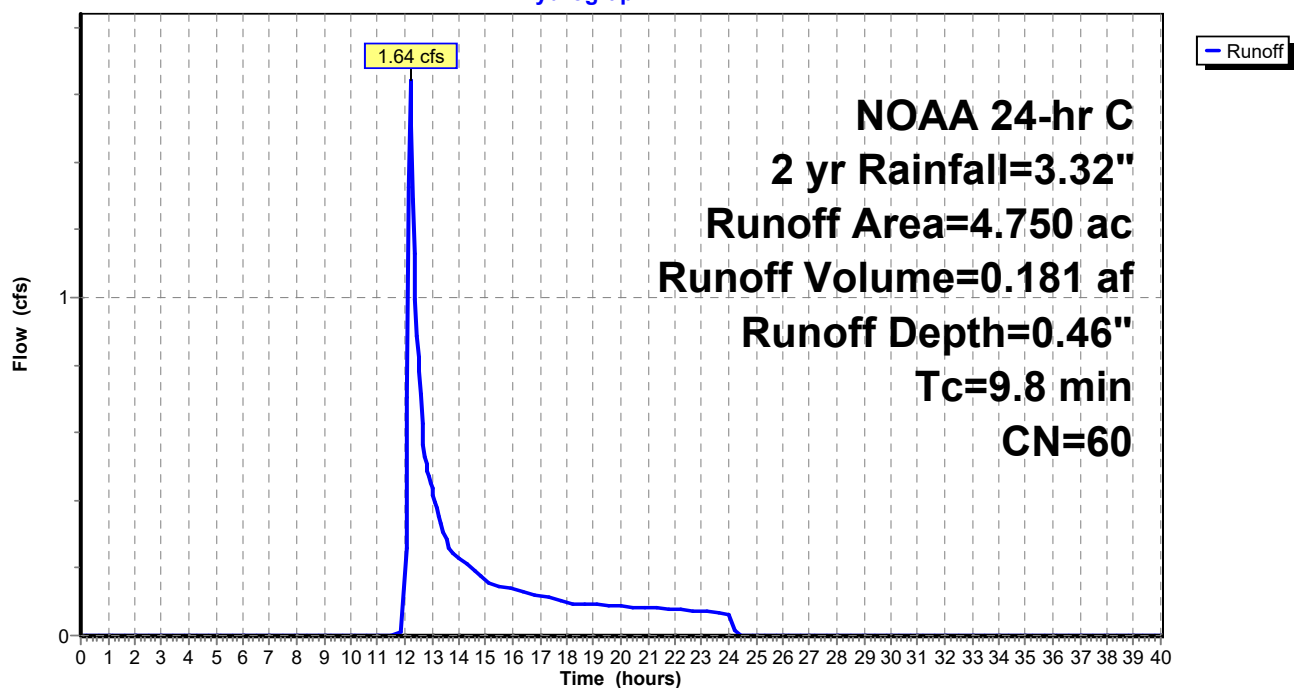
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C 2 yr Rainfall=3.32"

Area (ac)	CN	Description
3.240	55	Woods, Good, HSG B
1.510	70	Woods, Good, HSG C
4.750	60	Weighted Average
4.750		100.00% Pervious Area

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

Subcatchment X-6S: XDA-4 (pervious)

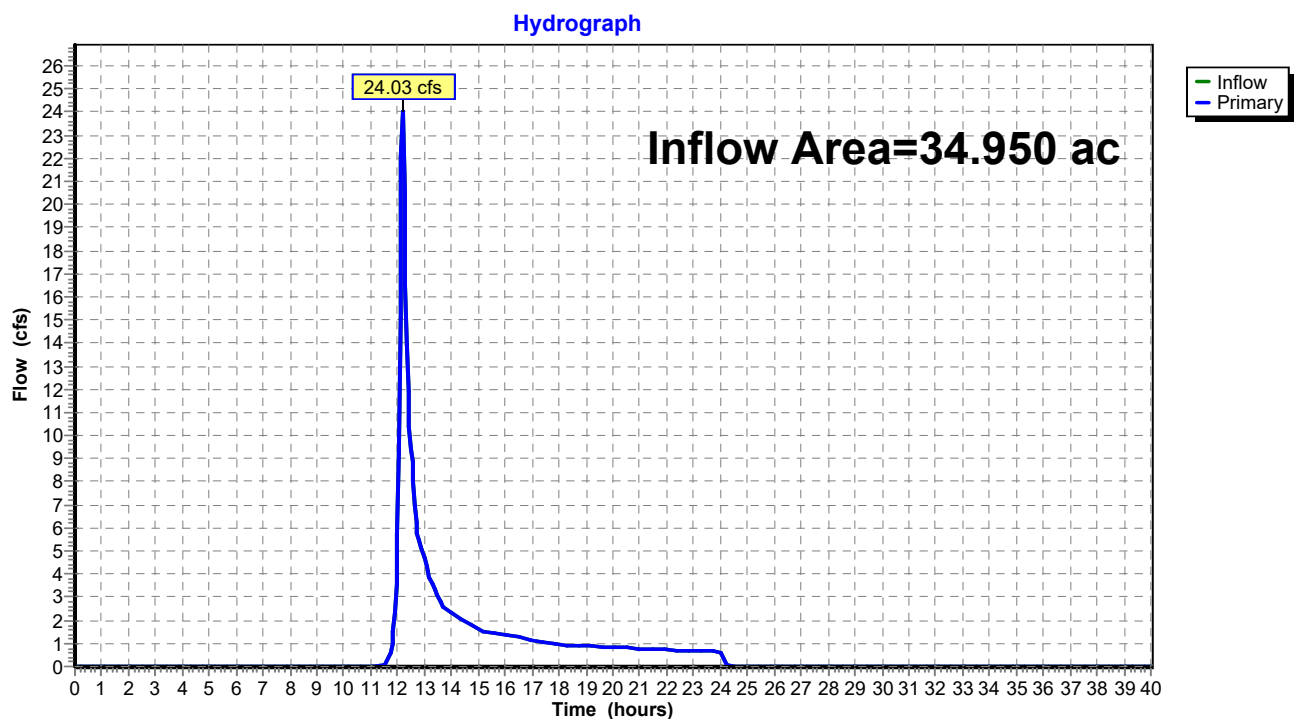
Hydrograph



Summary for Link XDA-4: Existing Drainage Area #4

Inflow Area = 34.950 ac, 0.00% Impervious, Inflow Depth = 0.71" for 2 yr event
Inflow = 24.03 cfs @ 12.19 hrs, Volume= 2.070 af
Primary = 24.03 cfs @ 12.19 hrs, Volume= 2.070 af, Atten= 0%, Lag= 0.0 min
Routed to nonexistent node DP-2

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

Link XDA-4: Existing Drainage Area #4

Summary for Subcatchment X-4P: XDA-4 (pervious)

Runoff = 59.34 cfs @ 12.18 hrs, Volume= 4.538 af, Depth= 1.80"
Routed to Link XDA-4 : Existing Drainage Area #4

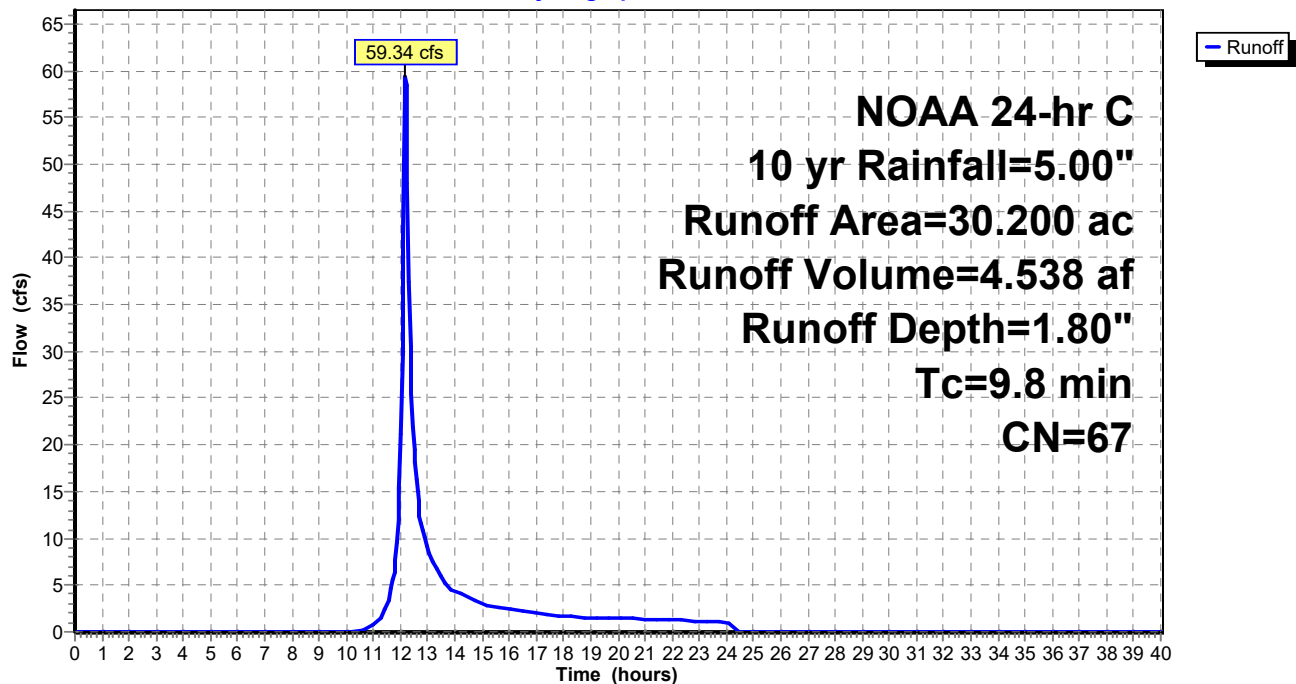
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C 10 yr Rainfall=5.00"

Area (ac)	CN	Description
11.700	55	Woods, Good, HSG B
7.940	70	Woods, Good, HSG C
1.310	77	Woods, Good, HSG D
0.560	71	Row crops, C&T, Good, HSG B
8.690	78	Row crops, C&T, Good, HSG C
30.200	67	Weighted Average
30.200		100.00% Pervious Area

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

Subcatchment X-4P: XDA-4 (pervious)

Hydrograph



Summary for Subcatchment X-6S: XDA-4 (pervious)

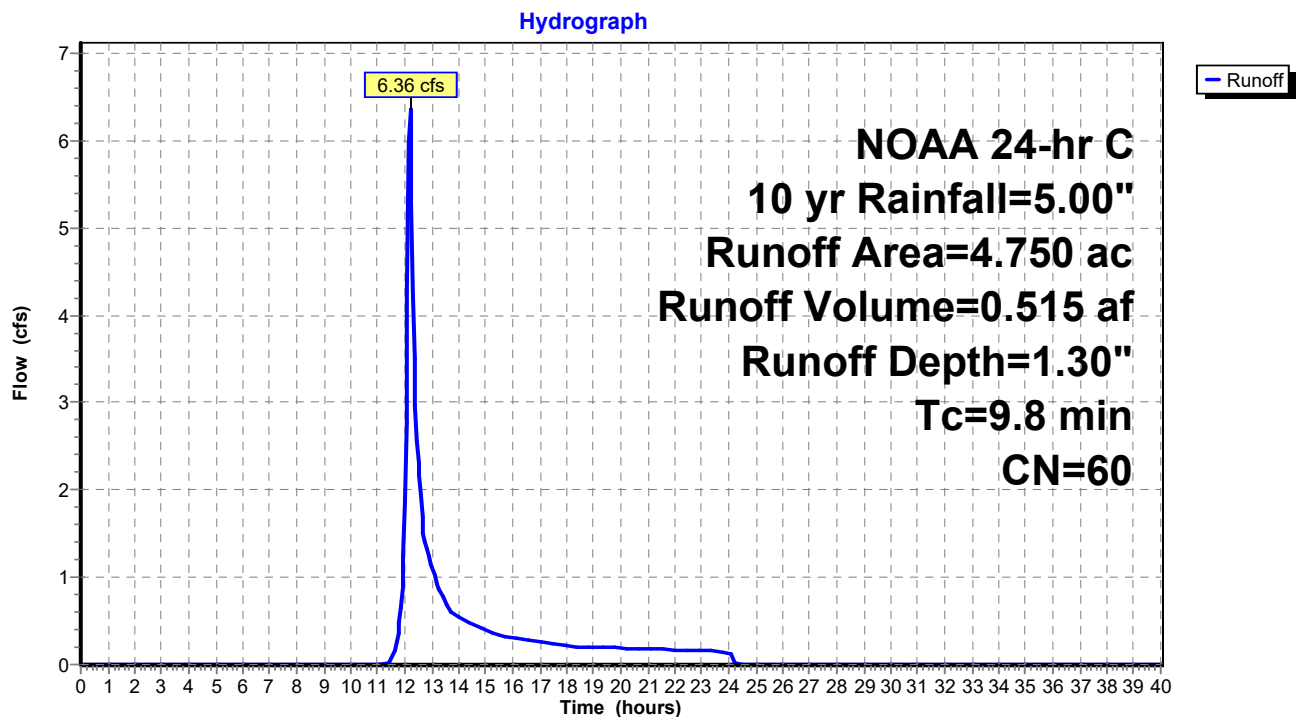
Runoff = 6.36 cfs @ 12.19 hrs, Volume= 0.515 af, Depth= 1.30"
Routed to Link XDA-4 : Existing Drainage Area #4

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C 10 yr Rainfall=5.00"

Area (ac)	CN	Description
3.240	55	Woods, Good, HSG B
1.510	70	Woods, Good, HSG C
4.750	60	Weighted Average
4.750		100.00% Pervious Area

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

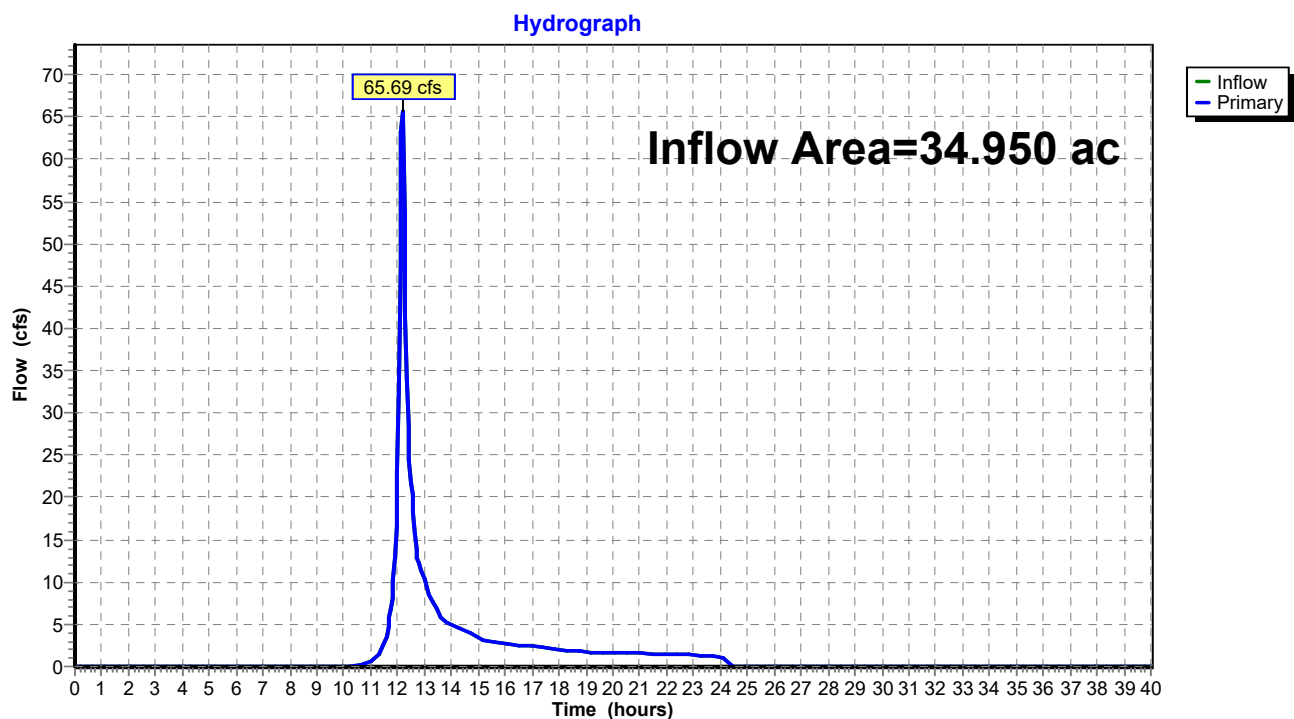
Subcatchment X-6S: XDA-4 (pervious)



Summary for Link XDA-4: Existing Drainage Area #4

Inflow Area = 34.950 ac, 0.00% Impervious, Inflow Depth = 1.73" for 10 yr event
Inflow = 65.69 cfs @ 12.18 hrs, Volume= 5.053 af
Primary = 65.69 cfs @ 12.18 hrs, Volume= 5.053 af, Atten= 0%, Lag= 0.0 min
Routed to nonexistent node DP-2

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

Link XDA-4: Existing Drainage Area #4

Summary for Subcatchment X-4P: XDA-4 (pervious)

Runoff = 146.16 cfs @ 12.17 hrs, Volume= 10.917 af, Depth= 4.34"

Routed to Link XDA-4 : Existing Drainage Area #4

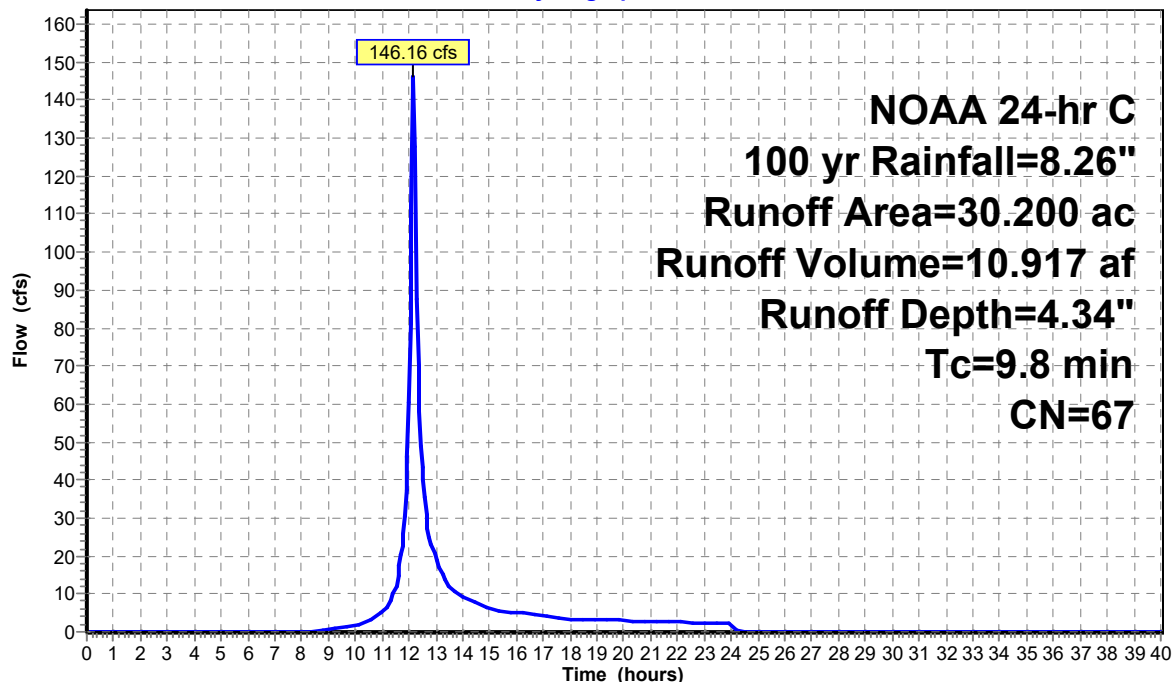
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C 100 yr Rainfall=8.26"

Area (ac)	CN	Description
11.700	55	Woods, Good, HSG B
7.940	70	Woods, Good, HSG C
1.310	77	Woods, Good, HSG D
0.560	71	Row crops, C&T, Good, HSG B
8.690	78	Row crops, C&T, Good, HSG C
30.200	67	Weighted Average
30.200		100.00% Pervious Area

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

Subcatchment X-4P: XDA-4 (pervious)

Hydrograph



Summary for Subcatchment X-6S: XDA-4 (pervious)

Runoff = 18.54 cfs @ 12.18 hrs, Volume= 1.397 af, Depth= 3.53"

Routed to Link XDA-4 : Existing Drainage Area #4

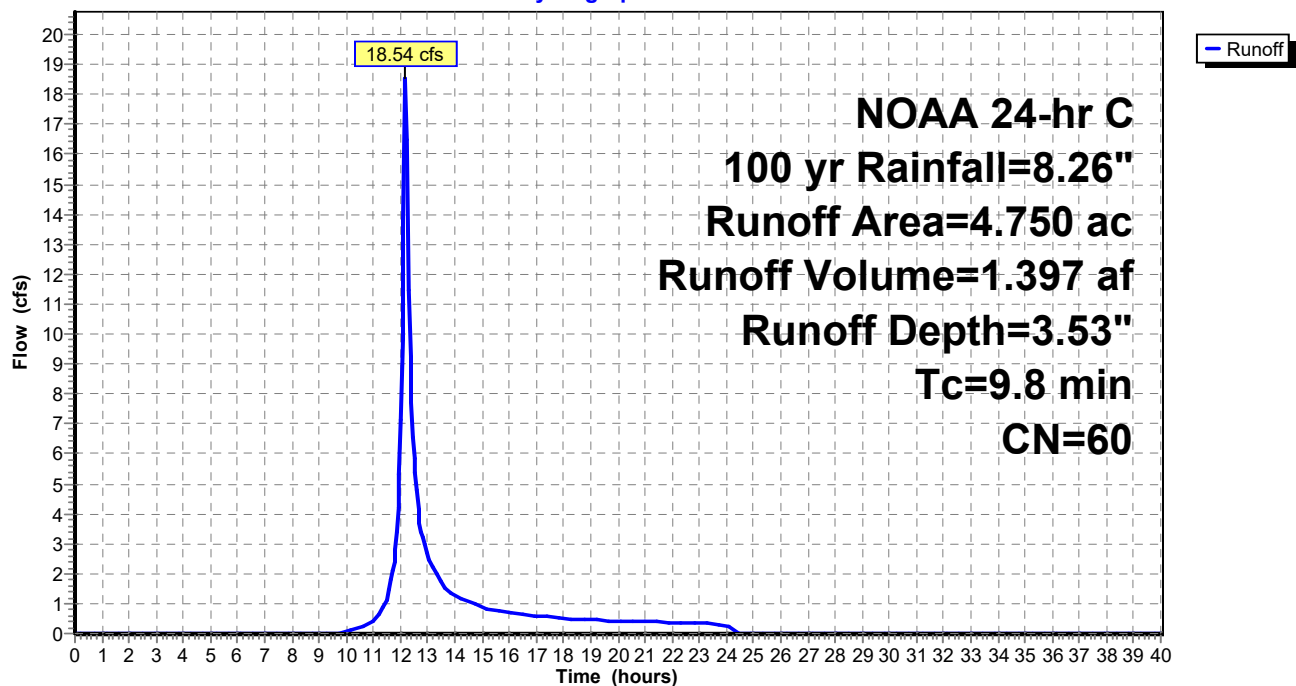
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C 100 yr Rainfall=8.26"

Area (ac)	CN	Description
3.240	55	Woods, Good, HSG B
1.510	70	Woods, Good, HSG C
4.750	60	Weighted Average
4.750		100.00% Pervious Area

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

Subcatchment X-6S: XDA-4 (pervious)

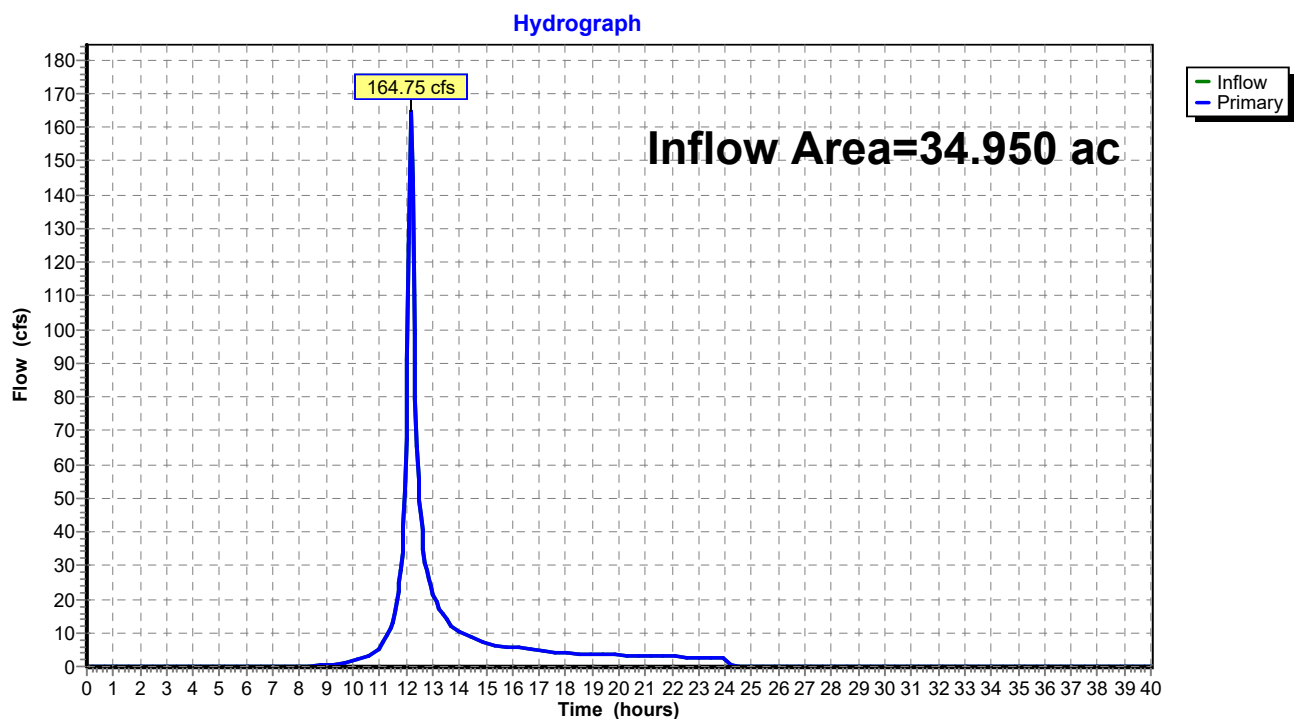
Hydrograph



Summary for Link XDA-4: Existing Drainage Area #4

Inflow Area = 34.950 ac, 0.00% Impervious, Inflow Depth = 4.23" for 100 yr event
Inflow = 164.75 cfs @ 12.17 hrs, Volume= 12.314 af
Primary = 164.75 cfs @ 12.17 hrs, Volume= 12.314 af, Atten= 0%, Lag= 0.0 min
Routed to nonexistent node DP-2

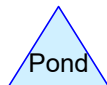
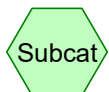
Primary outflow = Inflow, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs

Link XDA-4: Existing Drainage Area #4



XDA-5 (pervious)

Existing Drainage Area
#5



Routing Diagram for 2024-12-17 Existing- 081391

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Summary for Subcatchment X-5P: XDA-5 (pervious)

Runoff = 11.91 cfs @ 12.17 hrs, Volume= 0.874 af, Depth= 1.20"
Routed to Link XDA-5 : Existing Drainage Area #5

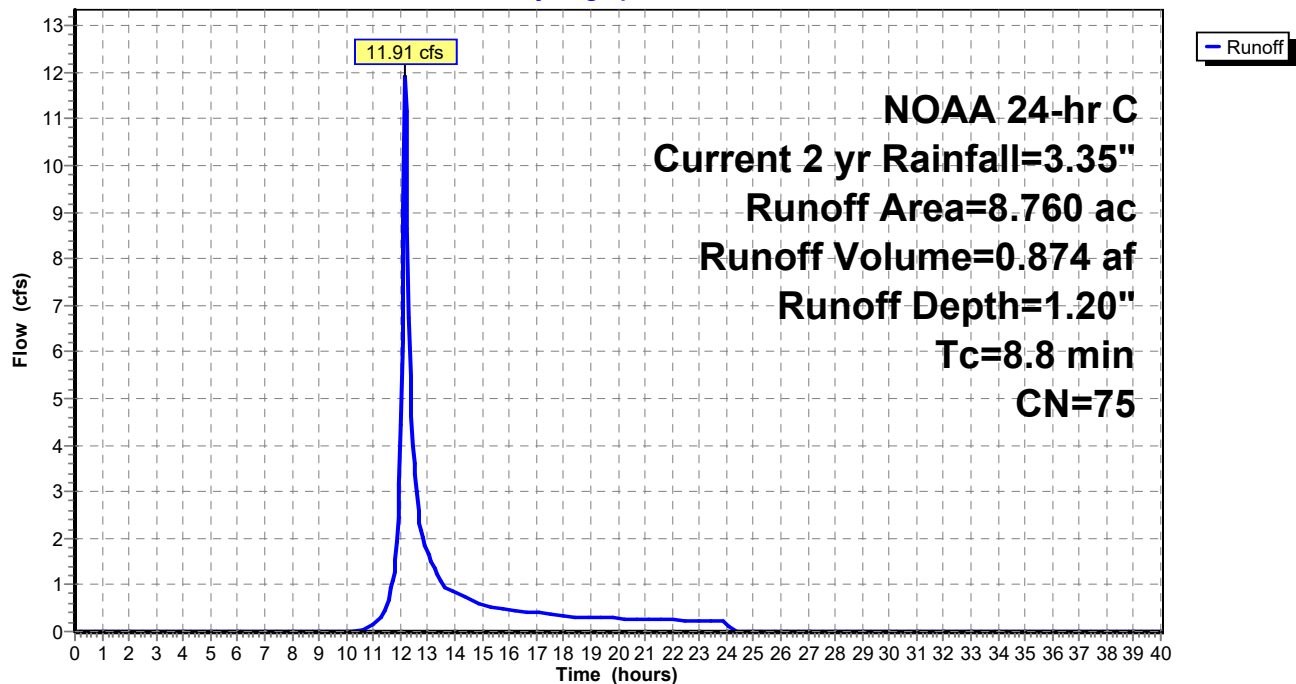
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
3.790	71	Row crops, C&T, Good, HSG B
4.970	78	Row crops, C&T, Good, HSG C
8.760	75	Weighted Average
8.760		100.00% Pervious Area

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

Subcatchment X-5P: XDA-5 (pervious)

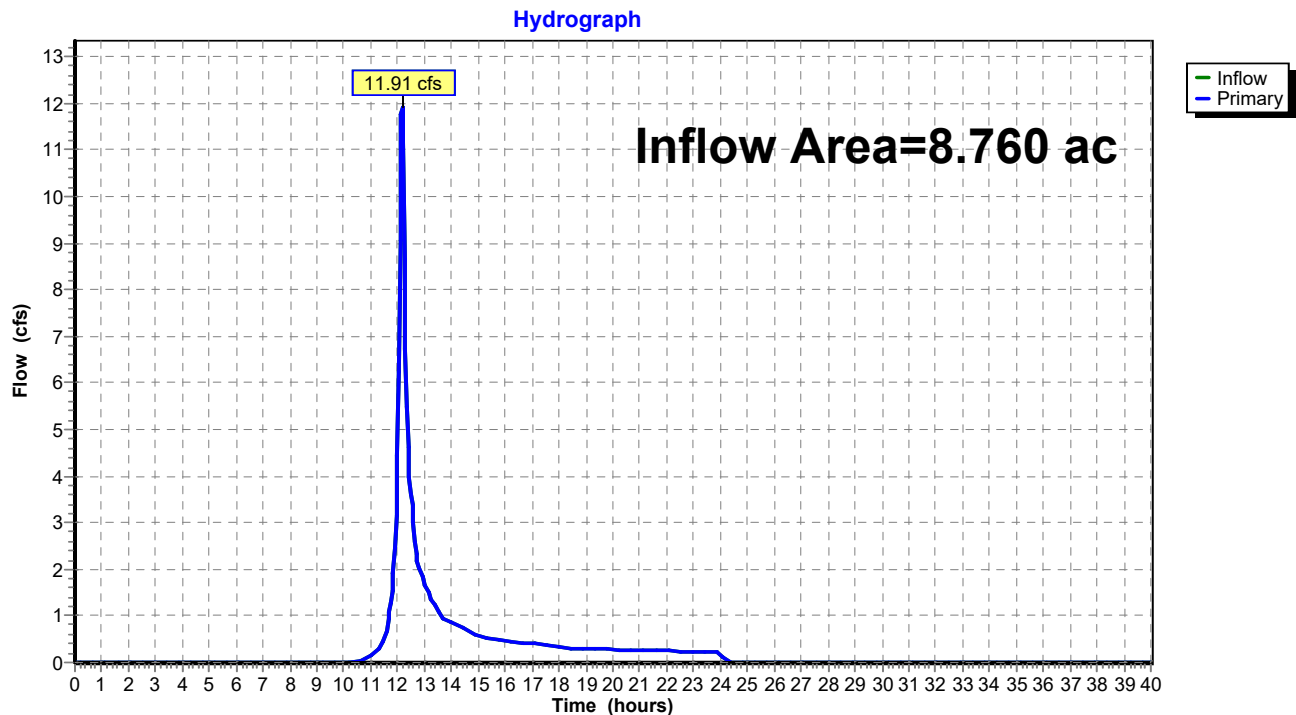
Hydrograph



Summary for Link XDA-5: Existing Drainage Area #5

Inflow Area = 8.760 ac, 0.00% Impervious, Inflow Depth = 1.20" for Current 2 yr event
Inflow = 11.91 cfs @ 12.17 hrs, Volume= 0.874 af
Primary = 11.91 cfs @ 12.17 hrs, Volume= 0.874 af, Atten= 0%, Lag= 0.0 min
Routed to nonexistent node DP-3

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

Link XDA-5: Existing Drainage Area #5

Summary for Subcatchment X-5P: XDA-5 (pervious)

Runoff = 25.49 cfs @ 12.16 hrs, Volume= 1.829 af, Depth= 2.51"
 Routed to Link XDA-5 : Existing Drainage Area #5

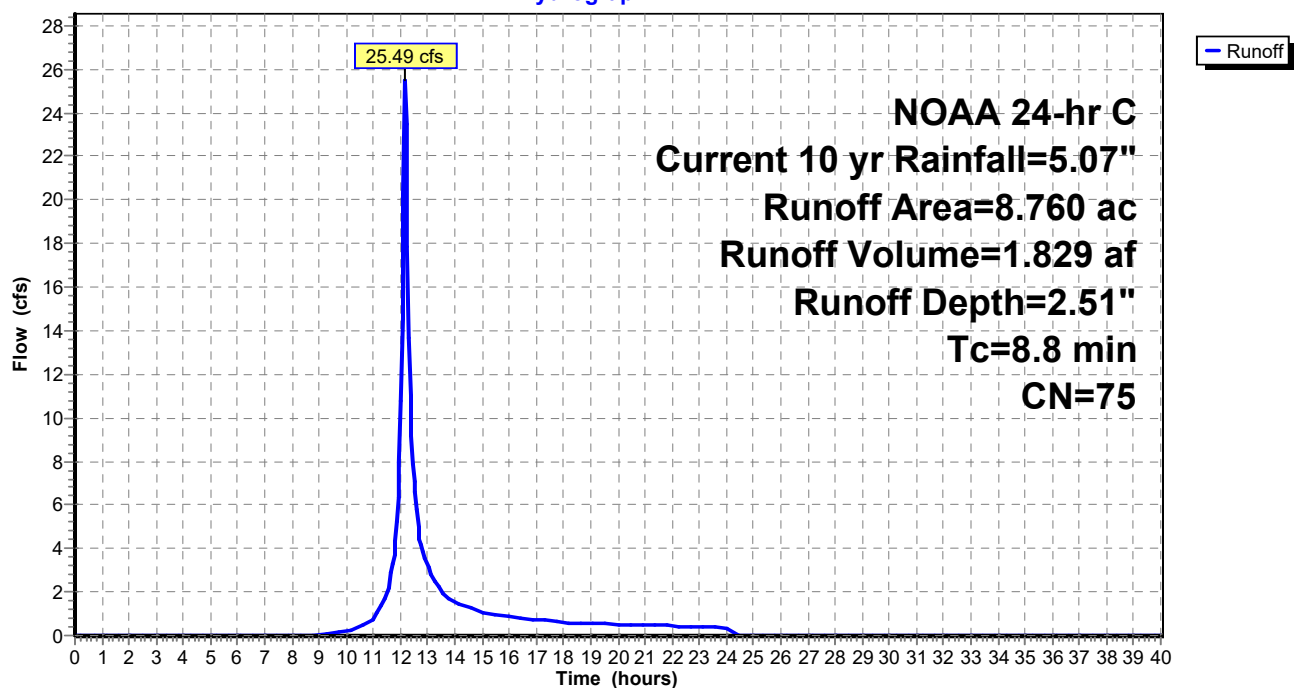
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.07"

Area (ac)	CN	Description
3.790	71	Row crops, C&T, Good, HSG B
4.970	78	Row crops, C&T, Good, HSG C
8.760	75	Weighted Average
8.760		100.00% Pervious Area

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

Subcatchment X-5P: XDA-5 (pervious)

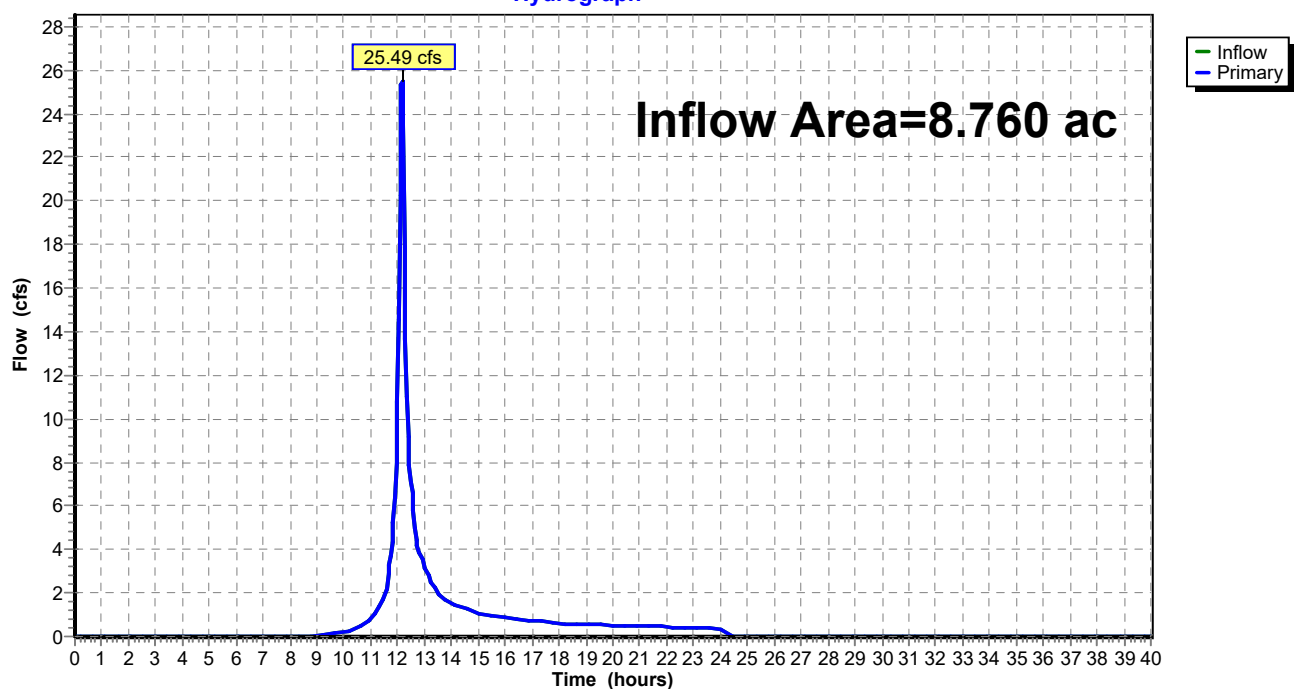
Hydrograph



Summary for Link XDA-5: Existing Drainage Area #5

Inflow Area = 8.760 ac, 0.00% Impervious, Inflow Depth = 2.51" for Current 10 yr event
Inflow = 25.49 cfs @ 12.16 hrs, Volume= 1.829 af
Primary = 25.49 cfs @ 12.16 hrs, Volume= 1.829 af, Atten= 0%, Lag= 0.0 min
Routed to nonexistent node DP-3

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

Link XDA-5: Existing Drainage Area #5**Hydrograph**

Summary for Subcatchment X-5P: XDA-5 (pervious)

Runoff = 54.62 cfs @ 12.16 hrs, Volume= 3.971 af, Depth= 5.44"
Routed to Link XDA-5 : Existing Drainage Area #5

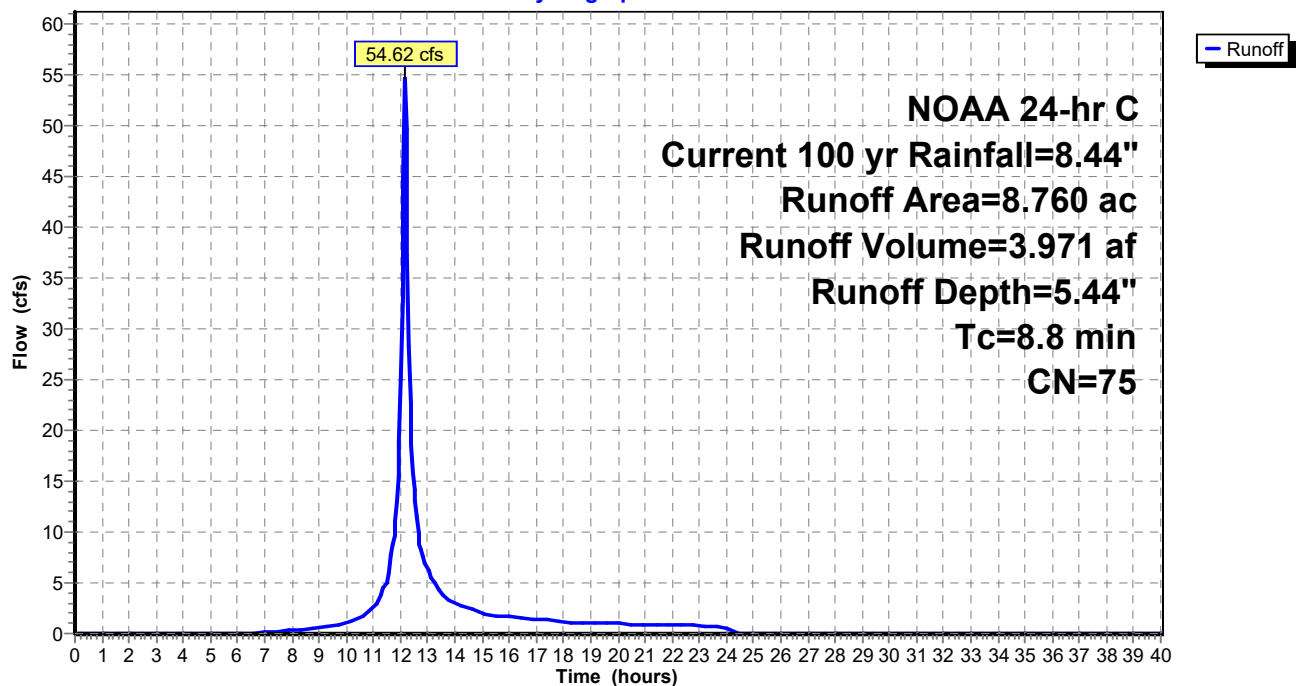
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 100 yr Rainfall=8.44"

Area (ac)	CN	Description
3.790	71	Row crops, C&T, Good, HSG B
4.970	78	Row crops, C&T, Good, HSG C
8.760	75	Weighted Average
8.760		100.00% Pervious Area

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

Subcatchment X-5P: XDA-5 (pervious)

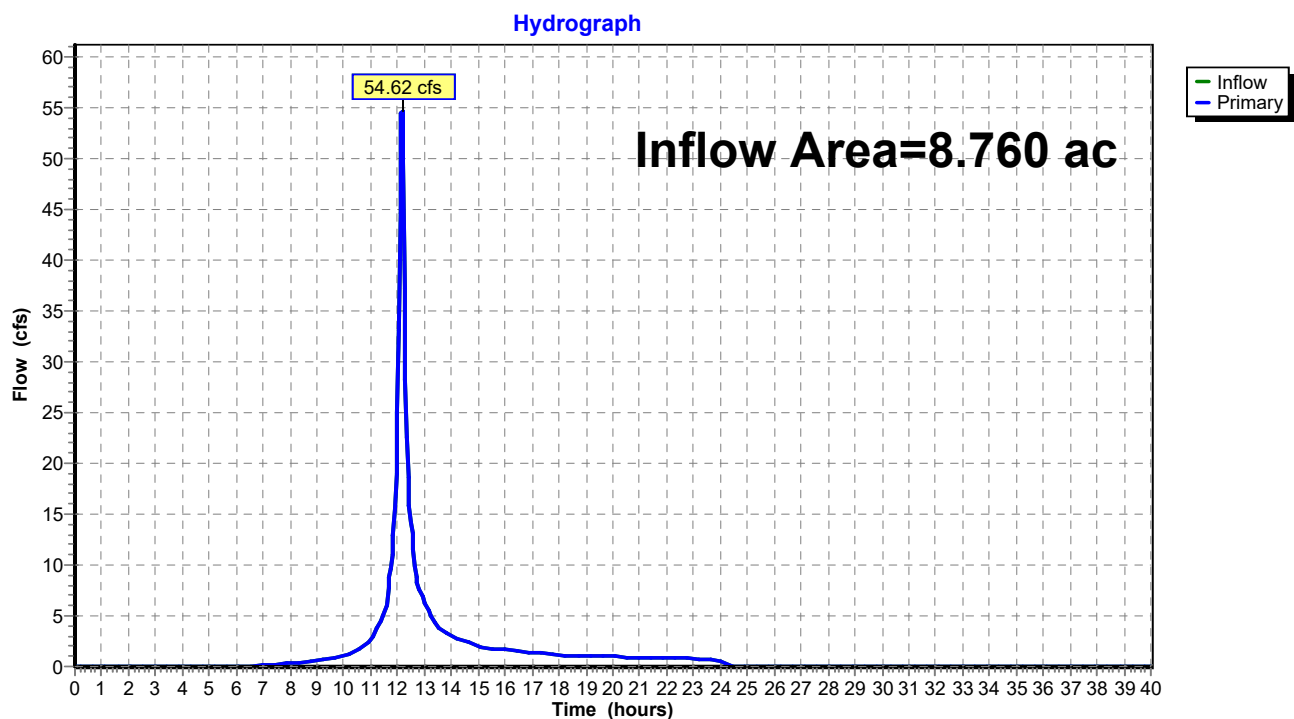
Hydrograph



Summary for Link XDA-5: Existing Drainage Area #5

Inflow Area = 8.760 ac, 0.00% Impervious, Inflow Depth = 5.44" for Current 100 yr event
Inflow = 54.62 cfs @ 12.16 hrs, Volume= 3.971 af
Primary = 54.62 cfs @ 12.16 hrs, Volume= 3.971 af, Atten= 0%, Lag= 0.0 min
Routed to nonexistent node DP-3

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

Link XDA-5: Existing Drainage Area #5

Summary for Subcatchment X-5P: XDA-5 (pervious)

Runoff = 15.67 cfs @ 12.16 hrs, Volume= 1.135 af, Depth= 1.56"

Routed to Link XDA-5 : Existing Drainage Area #5

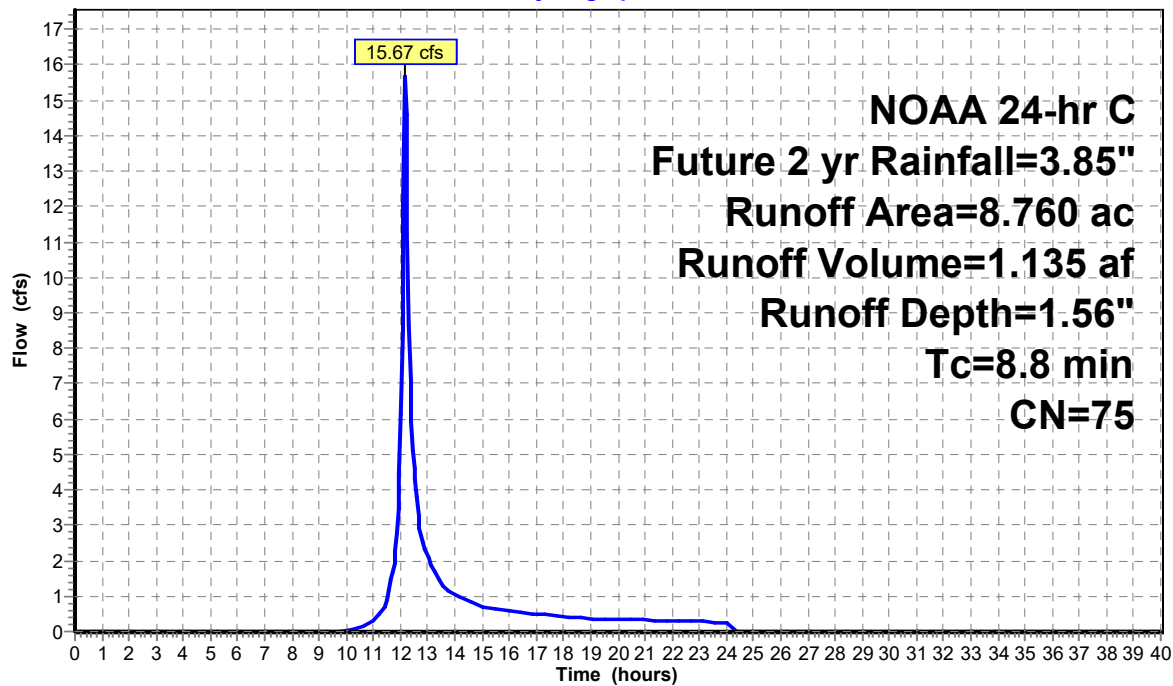
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 2 yr Rainfall=3.85"

Area (ac)	CN	Description
3.790	71	Row crops, C&T, Good, HSG B
4.970	78	Row crops, C&T, Good, HSG C
8.760	75	Weighted Average
8.760		100.00% Pervious Area

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

Subcatchment X-5P: XDA-5 (pervious)

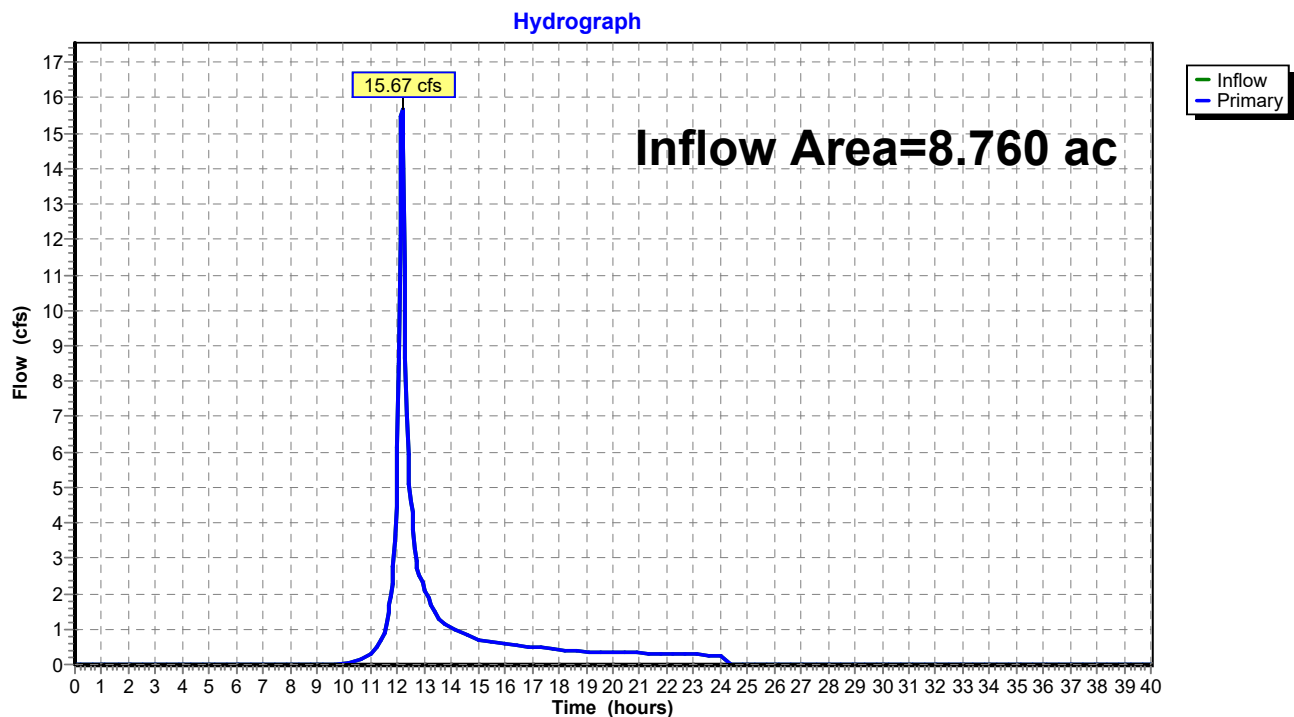
Hydrograph



Summary for Link XDA-5: Existing Drainage Area #5

Inflow Area = 8.760 ac, 0.00% Impervious, Inflow Depth = 1.56" for Future 2 yr event
Inflow = 15.67 cfs @ 12.16 hrs, Volume= 1.135 af
Primary = 15.67 cfs @ 12.16 hrs, Volume= 1.135 af, Atten= 0%, Lag= 0.0 min
Routed to nonexistent node DP-3

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

Link XDA-5: Existing Drainage Area #5

Summary for Subcatchment X-5P: XDA-5 (pervious)

Runoff = 31.72 cfs @ 12.16 hrs, Volume= 2.278 af, Depth= 3.12"
Routed to Link XDA-5 : Existing Drainage Area #5

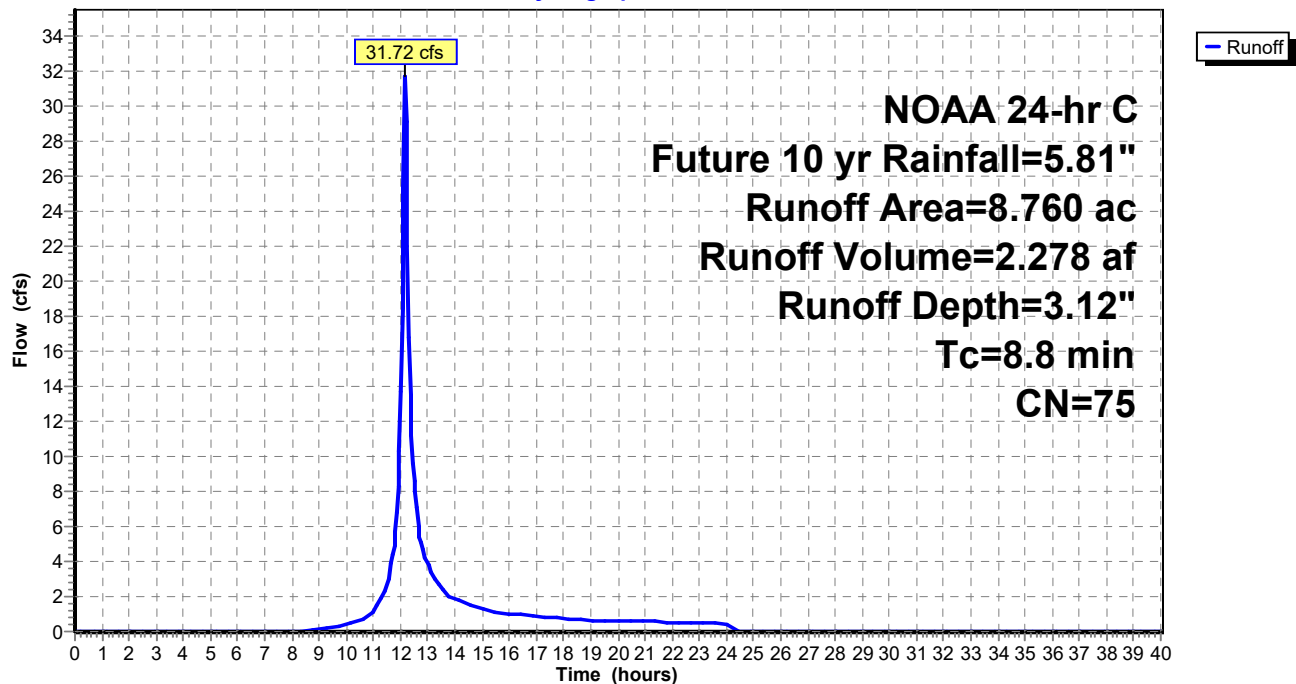
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 10 yr Rainfall=5.81"

Area (ac)	CN	Description
3.790	71	Row crops, C&T, Good, HSG B
4.970	78	Row crops, C&T, Good, HSG C
8.760	75	Weighted Average
8.760		100.00% Pervious Area

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

Subcatchment X-5P: XDA-5 (pervious)

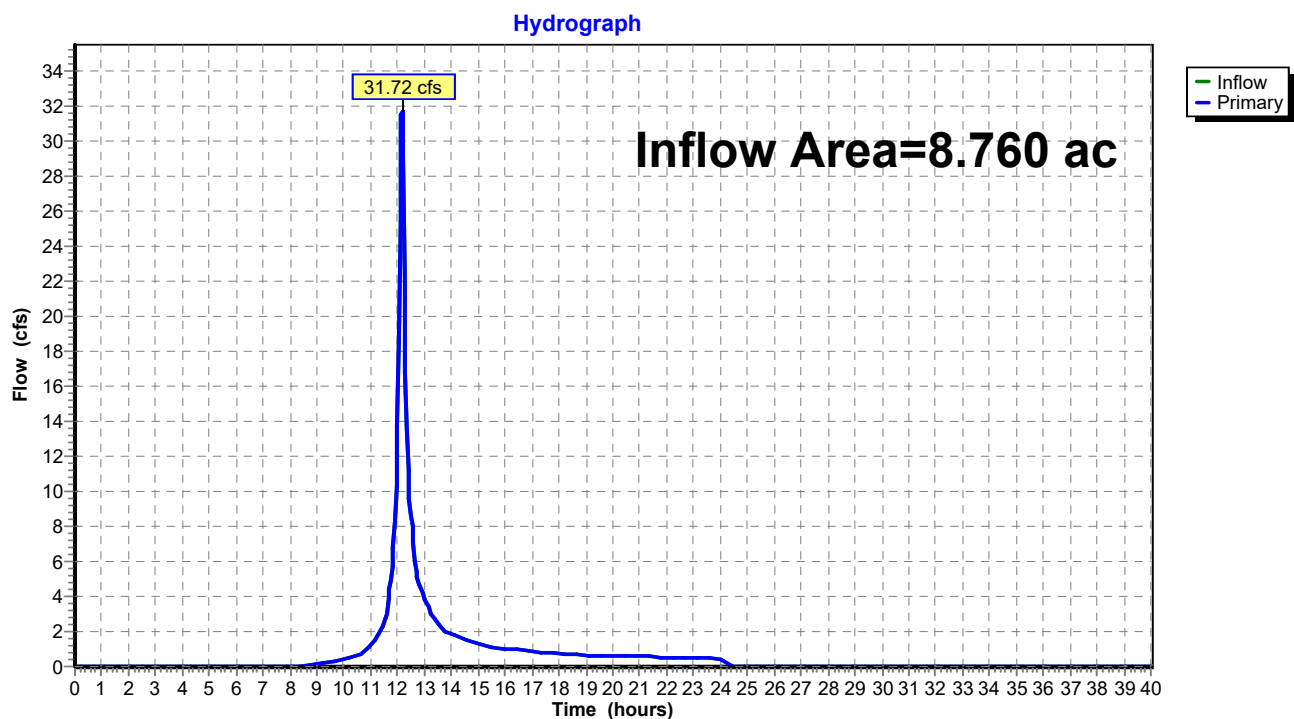
Hydrograph



Summary for Link XDA-5: Existing Drainage Area #5

Inflow Area = 8.760 ac, 0.00% Impervious, Inflow Depth = 3.12" for Future 10 yr event
Inflow = 31.72 cfs @ 12.16 hrs, Volume= 2.278 af
Primary = 31.72 cfs @ 12.16 hrs, Volume= 2.278 af, Atten= 0%, Lag= 0.0 min
Routed to nonexistent node DP-3

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

Link XDA-5: Existing Drainage Area #5

Summary for Subcatchment X-5P: XDA-5 (pervious)

Runoff = 77.62 cfs @ 12.16 hrs, Volume= 5.731 af, Depth= 7.85"

Routed to Link XDA-5 : Existing Drainage Area #5

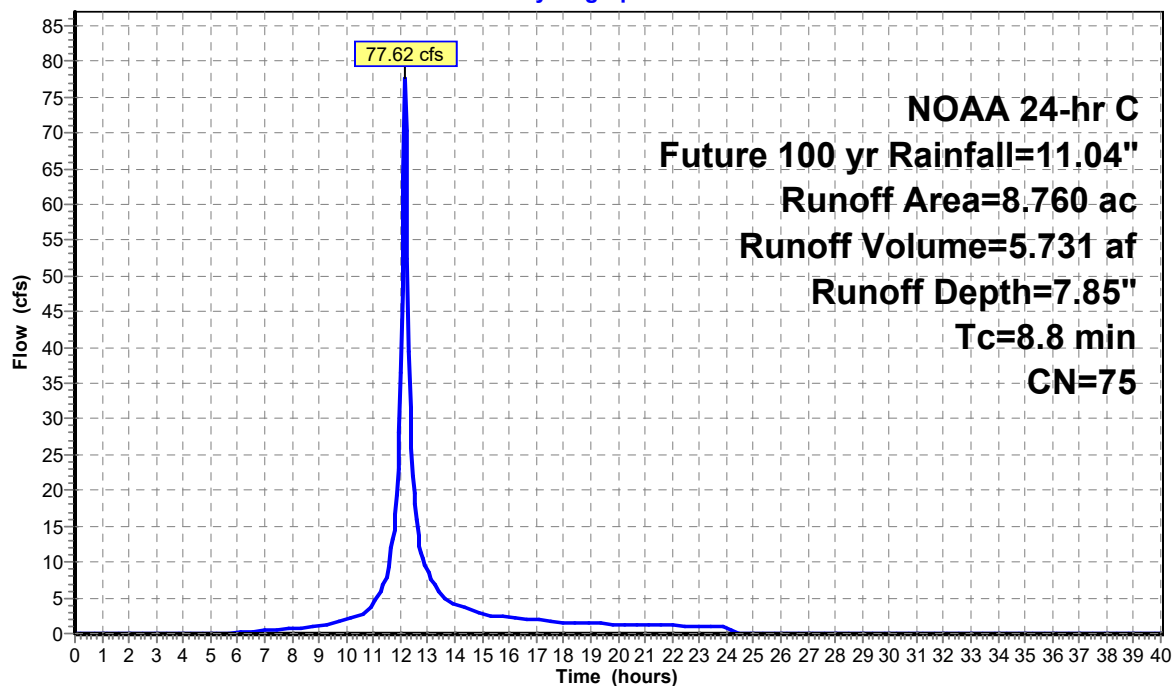
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 100 yr Rainfall=11.04"

Area (ac)	CN	Description
3.790	71	Row crops, C&T, Good, HSG B
4.970	78	Row crops, C&T, Good, HSG C
8.760	75	Weighted Average
8.760		100.00% Pervious Area

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

Subcatchment X-5P: XDA-5 (pervious)

Hydrograph

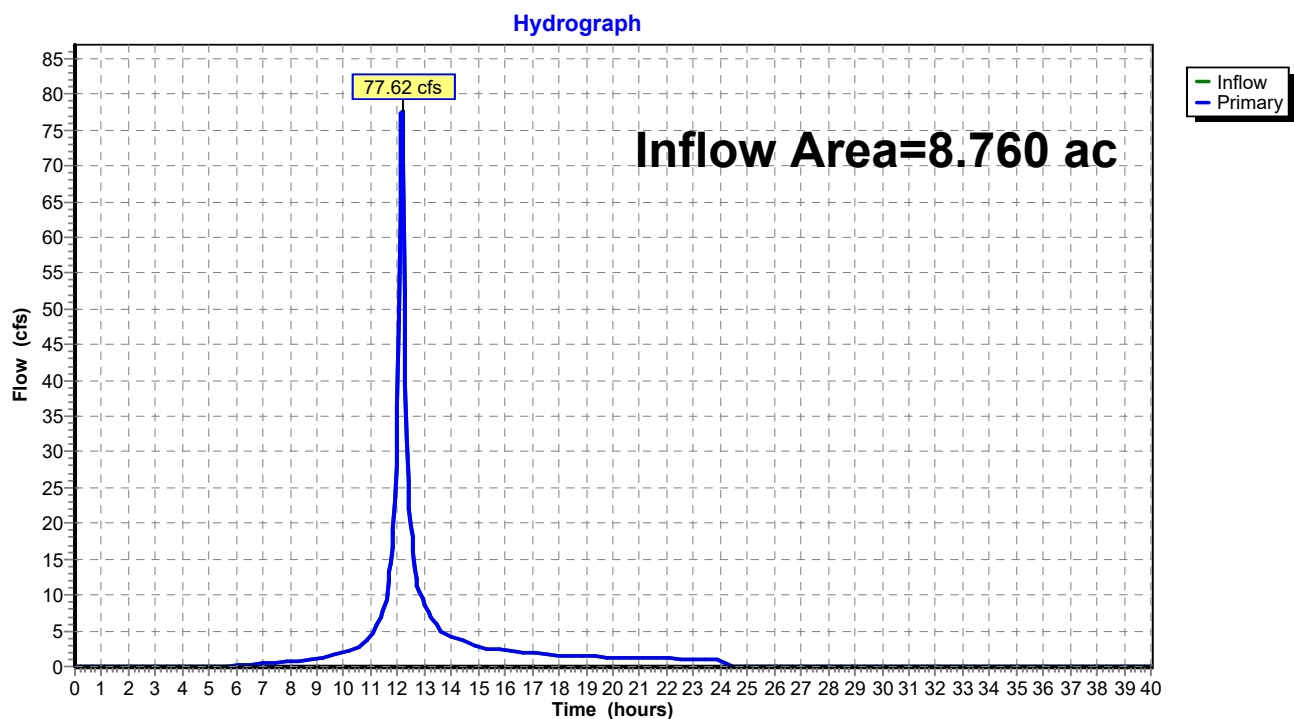


Runoff

Summary for Link XDA-5: Existing Drainage Area #5

Inflow Area = 8.760 ac, 0.00% Impervious, Inflow Depth = 7.85" for Future 100 yr event
Inflow = 77.62 cfs @ 12.16 hrs, Volume= 5.731 af
Primary = 77.62 cfs @ 12.16 hrs, Volume= 5.731 af, Atten= 0%, Lag= 0.0 min
Routed to nonexistent node DP-3

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

Link XDA-5: Existing Drainage Area #5

Summary for Subcatchment X-5P: XDA-5 (pervious)

Runoff = 11.70 cfs @ 12.17 hrs, Volume= 0.858 af, Depth= 1.18"

Routed to Link XDA-5 : Existing Drainage Area #5

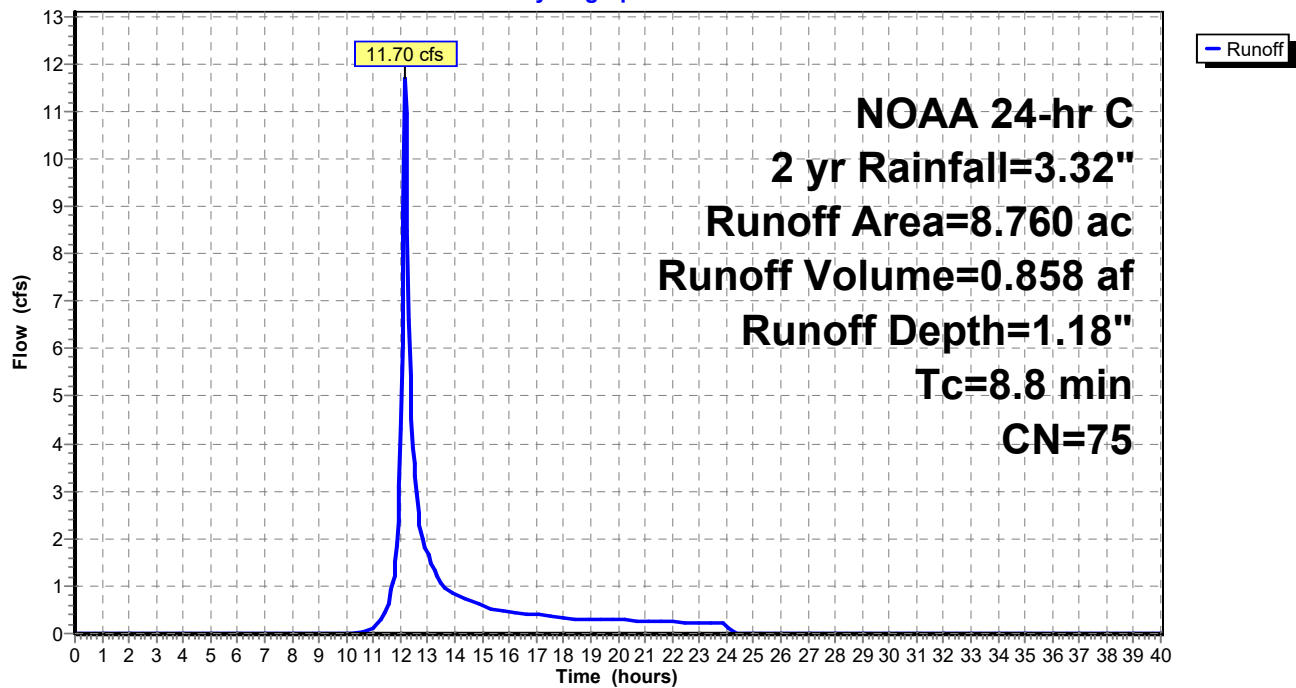
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C 2 yr Rainfall=3.32"

Area (ac)	CN	Description
3.790	71	Row crops, C&T, Good, HSG B
4.970	78	Row crops, C&T, Good, HSG C
8.760	75	Weighted Average
8.760		100.00% Pervious Area

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

Subcatchment X-5P: XDA-5 (pervious)

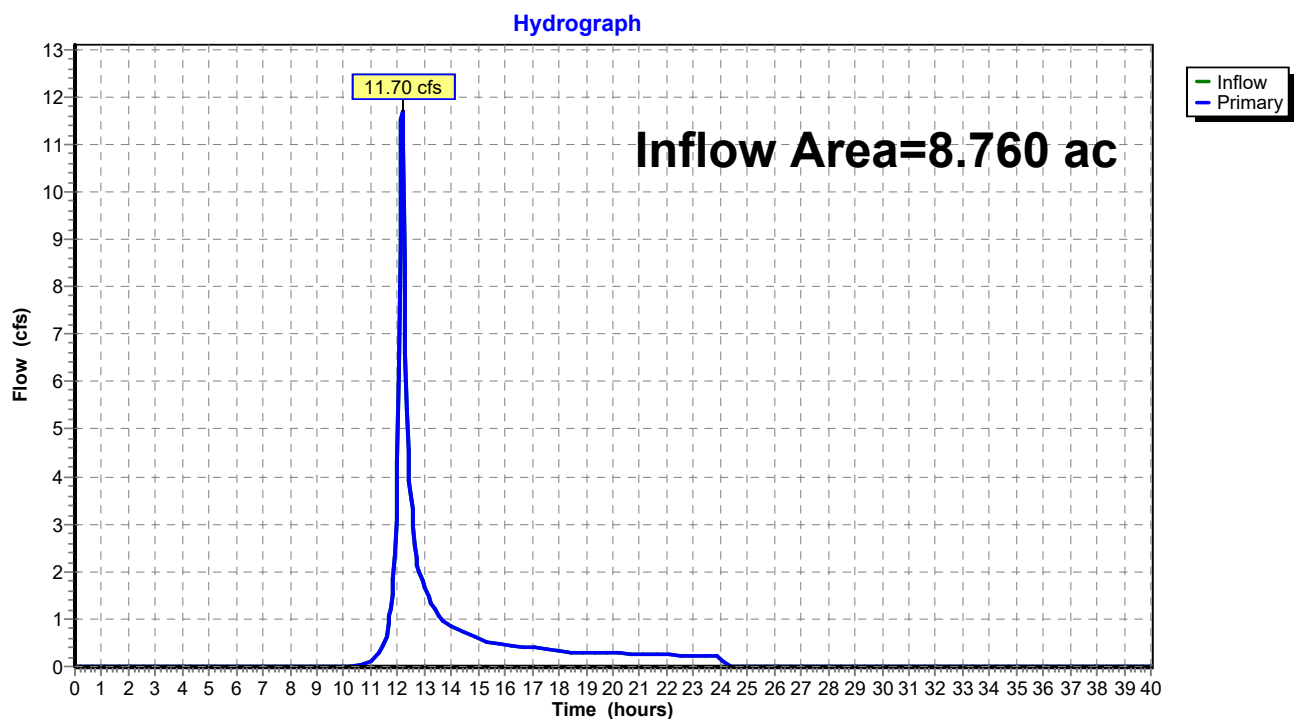
Hydrograph



Summary for Link XDA-5: Existing Drainage Area #5

Inflow Area = 8.760 ac, 0.00% Impervious, Inflow Depth = 1.18" for 2 yr event
Inflow = 11.70 cfs @ 12.17 hrs, Volume= 0.858 af
Primary = 11.70 cfs @ 12.17 hrs, Volume= 0.858 af, Atten= 0%, Lag= 0.0 min
Routed to nonexistent node DP-3

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

Link XDA-5: Existing Drainage Area #5

Summary for Subcatchment X-5P: XDA-5 (pervious)

Runoff = 24.91 cfs @ 12.16 hrs, Volume= 1.788 af, Depth= 2.45"
Routed to Link XDA-5 : Existing Drainage Area #5

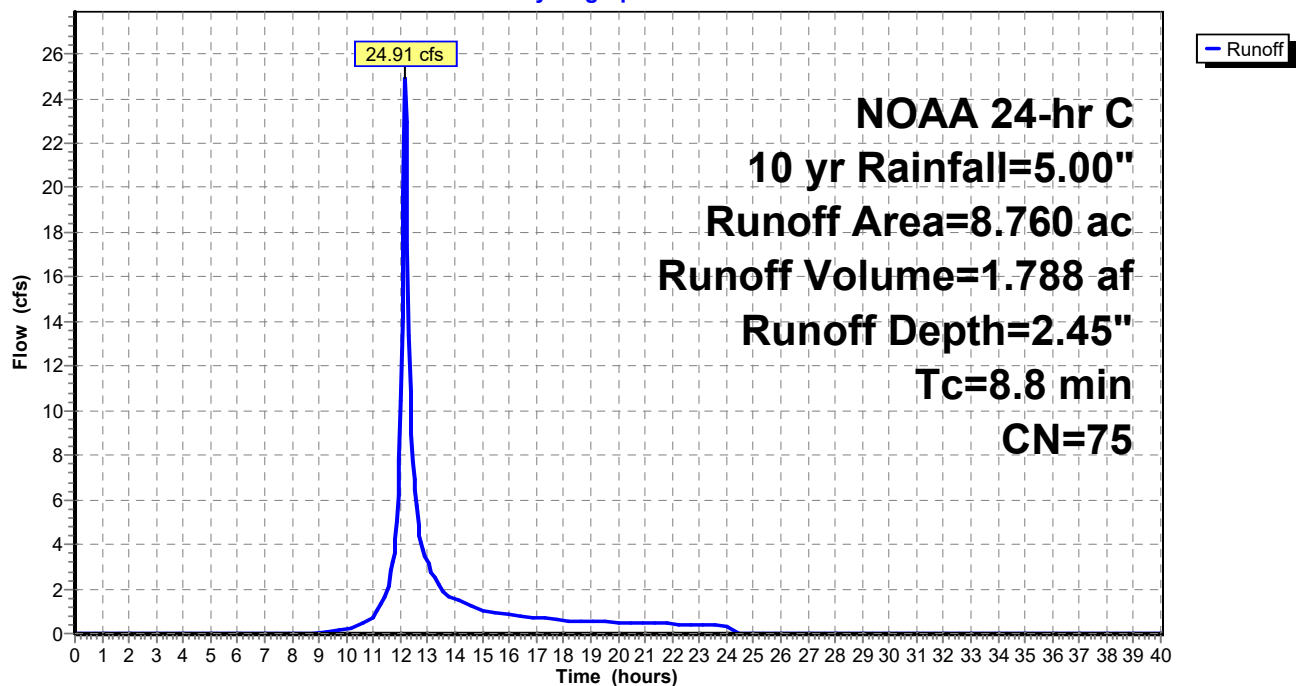
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C 10 yr Rainfall=5.00"

Area (ac)	CN	Description
3.790	71	Row crops, C&T, Good, HSG B
4.970	78	Row crops, C&T, Good, HSG C
8.760	75	Weighted Average
8.760		100.00% Pervious Area

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

Subcatchment X-5P: XDA-5 (pervious)

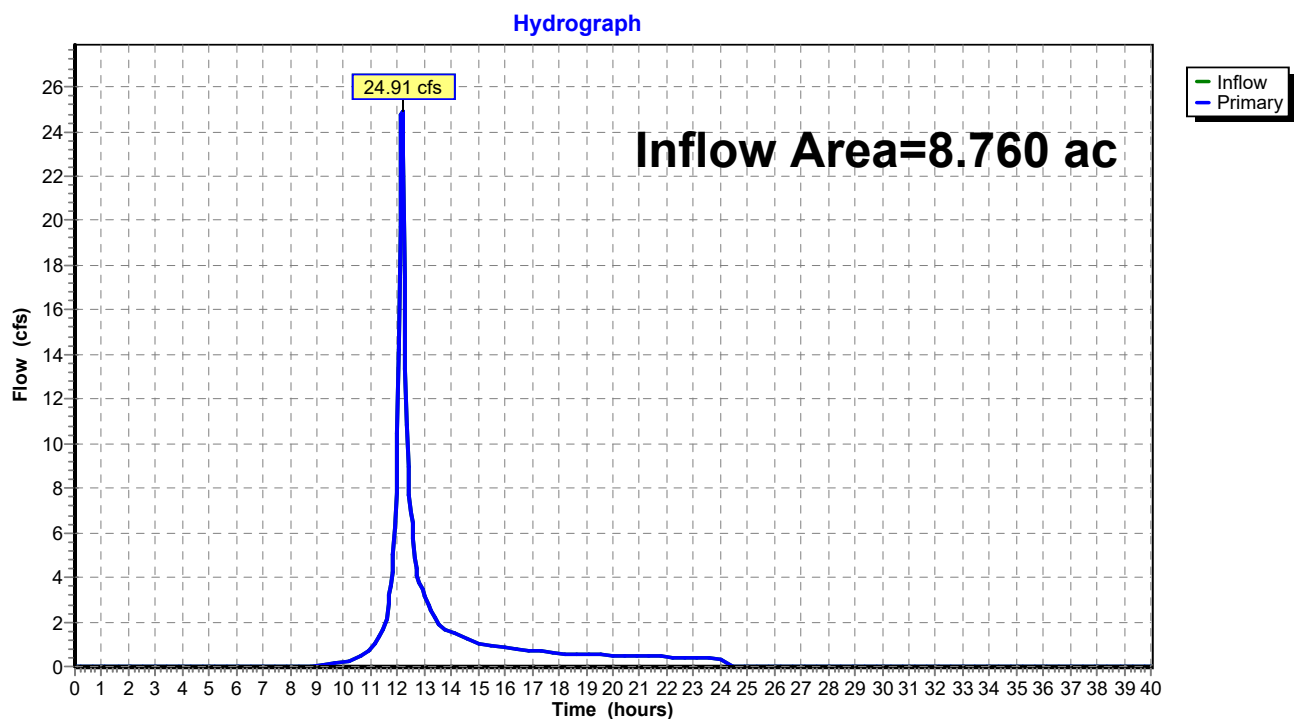
Hydrograph



Summary for Link XDA-5: Existing Drainage Area #5

Inflow Area = 8.760 ac, 0.00% Impervious, Inflow Depth = 2.45" for 10 yr event
Inflow = 24.91 cfs @ 12.16 hrs, Volume= 1.788 af
Primary = 24.91 cfs @ 12.16 hrs, Volume= 1.788 af, Atten= 0%, Lag= 0.0 min
Routed to nonexistent node DP-3

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

Link XDA-5: Existing Drainage Area #5

Summary for Subcatchment X-5P: XDA-5 (pervious)

Runoff = 53.03 cfs @ 12.16 hrs, Volume= 3.852 af, Depth= 5.28"
 Routed to Link XDA-5 : Existing Drainage Area #5

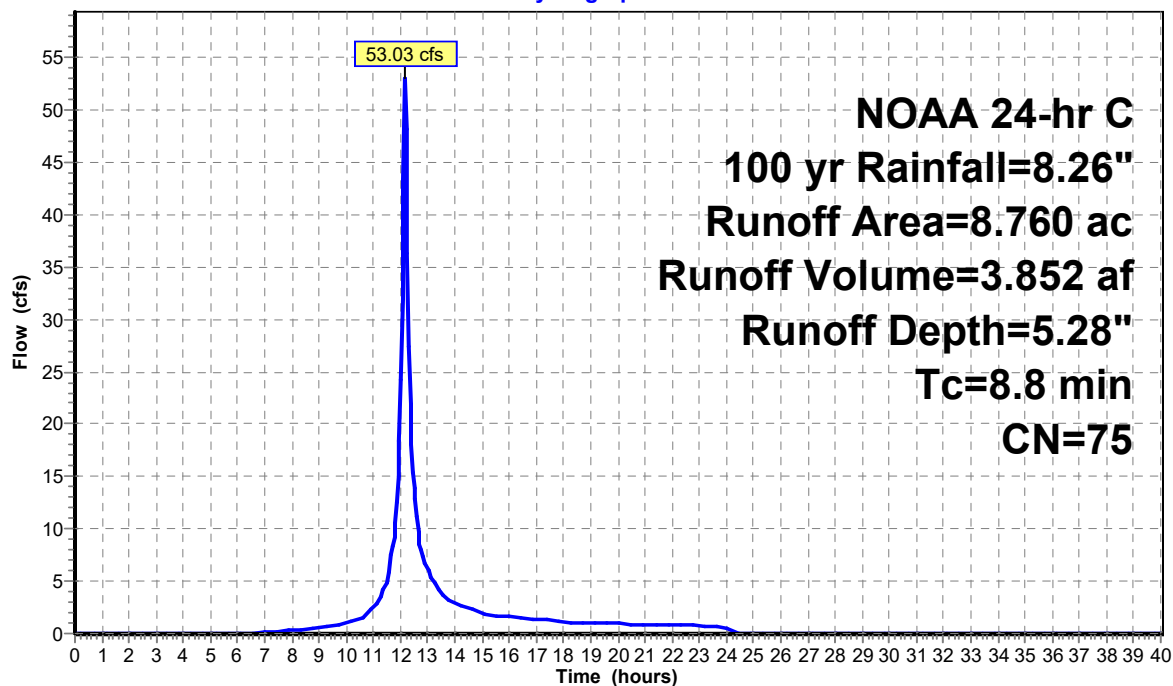
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C 100 yr Rainfall=8.26"

Area (ac)	CN	Description
3.790	71	Row crops, C&T, Good, HSG B
4.970	78	Row crops, C&T, Good, HSG C
8.760	75	Weighted Average
8.760		100.00% Pervious Area

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

Subcatchment X-5P: XDA-5 (pervious)

Hydrograph

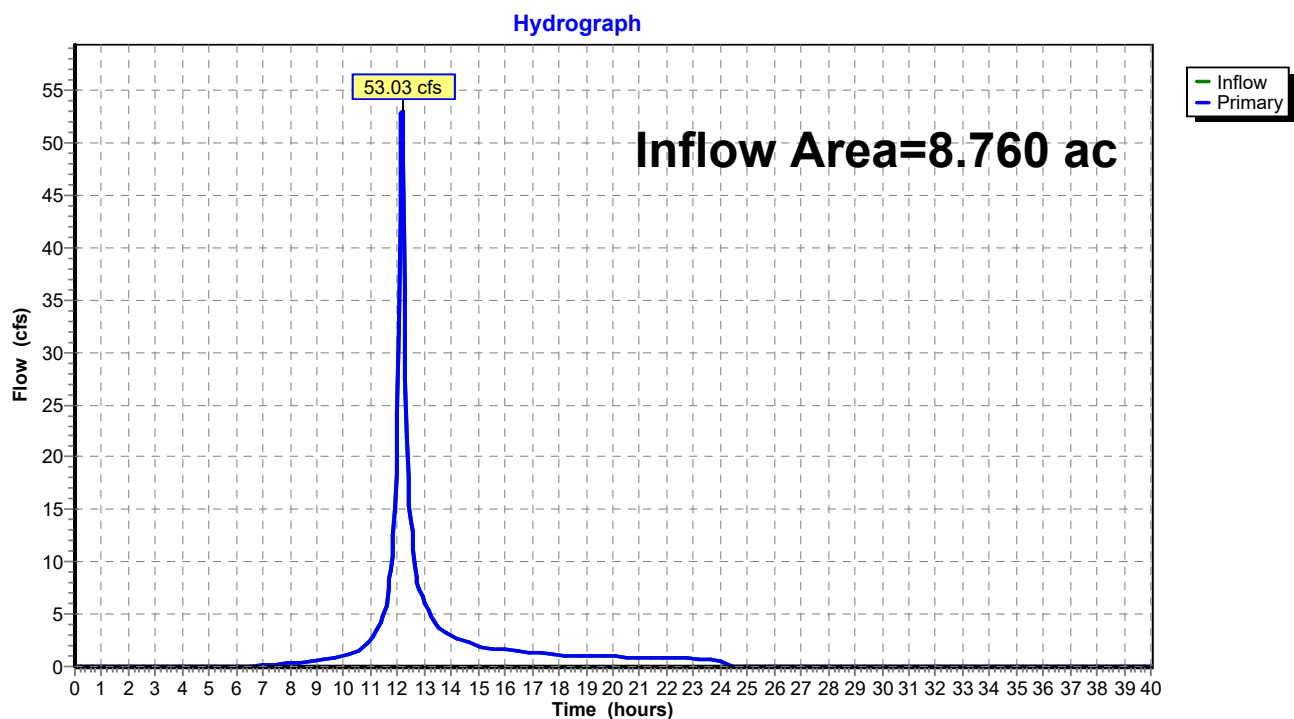


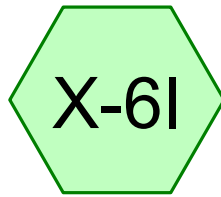
Runoff

Summary for Link XDA-5: Existing Drainage Area #5

Inflow Area = 8.760 ac, 0.00% Impervious, Inflow Depth = 5.28" for 100 yr event
Inflow = 53.03 cfs @ 12.16 hrs, Volume= 3.852 af
Primary = 53.03 cfs @ 12.16 hrs, Volume= 3.852 af, Atten= 0%, Lag= 0.0 min
Routed to nonexistent node DP-3

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

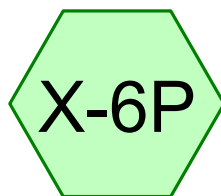
Link XDA-5: Existing Drainage Area #5



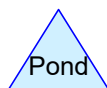
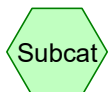
XDA-6 (impervious)



Existing Drainage Area
#6



XDA-6 (pervious)



Routing Diagram for 2024-12-17 Existing- 081391

Prepared by Bowman Consulting Group, Printed 12/19/2024
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Summary for Subcatchment X-6I: XDA-6 (impervious)

Runoff = 2.40 cfs @ 12.16 hrs, Volume= 0.197 af, Depth= 3.12"
 Routed to Link XDA-6 : Existing Drainage Area #6

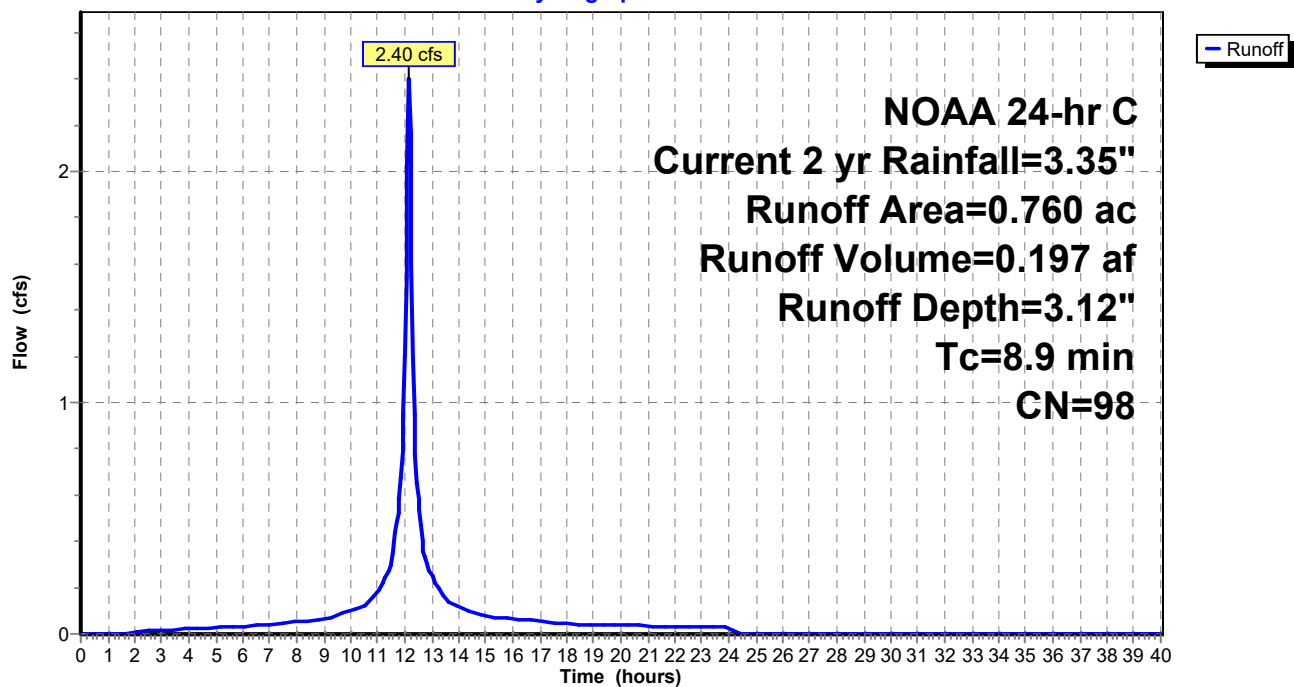
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
* 0.760	98	
0.760		100.00% Impervious Area

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

Subcatchment X-6I: XDA-6 (impervious)

Hydrograph



Summary for Subcatchment X-6P: XDA-6 (pervious)

Runoff = 55.83 cfs @ 12.17 hrs, Volume= 4.303 af, Depth= 0.92"
 Routed to Link XDA-6 : Existing Drainage Area #6

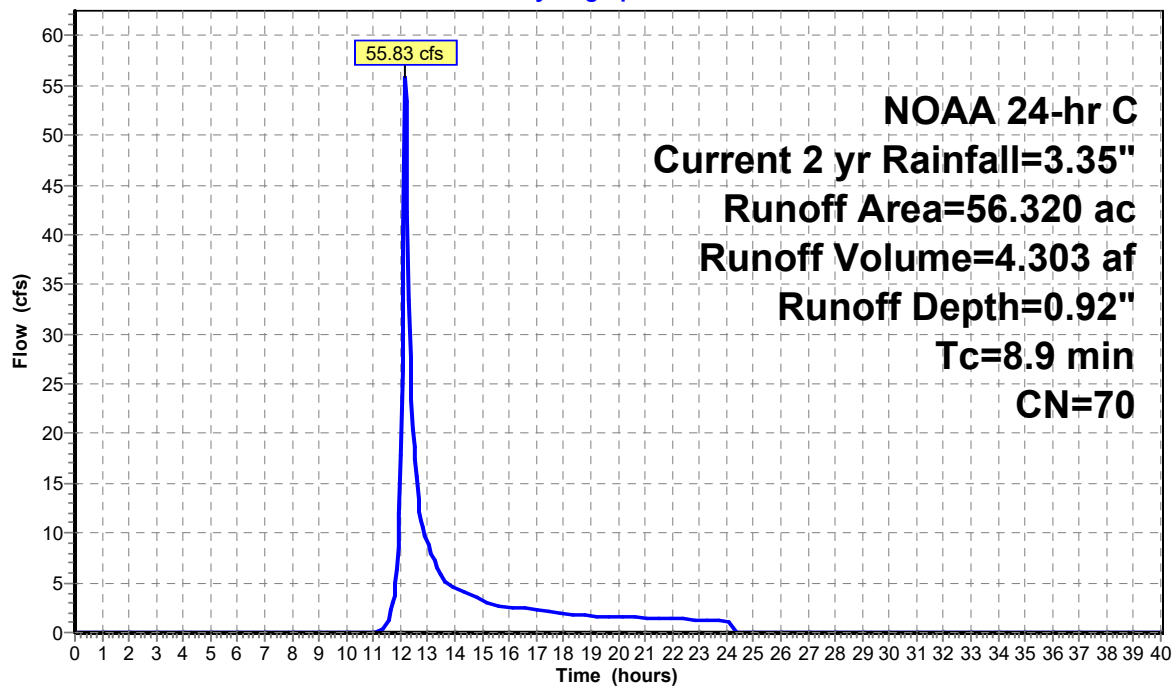
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

Area (ac)	CN	Description
6.820	55	Woods, Good, HSG B
10.710	70	Woods, Good, HSG C
4.480	77	Woods, Good, HSG D
29.650	71	Row crops, C&T, Good, HSG B
4.540	78	Row crops, C&T, Good, HSG C
0.120	81	Row crops, C&T, Good, HSG D
56.320	70	Weighted Average
56.320		100.00% Pervious Area

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

Subcatchment X-6P: XDA-6 (pervious)

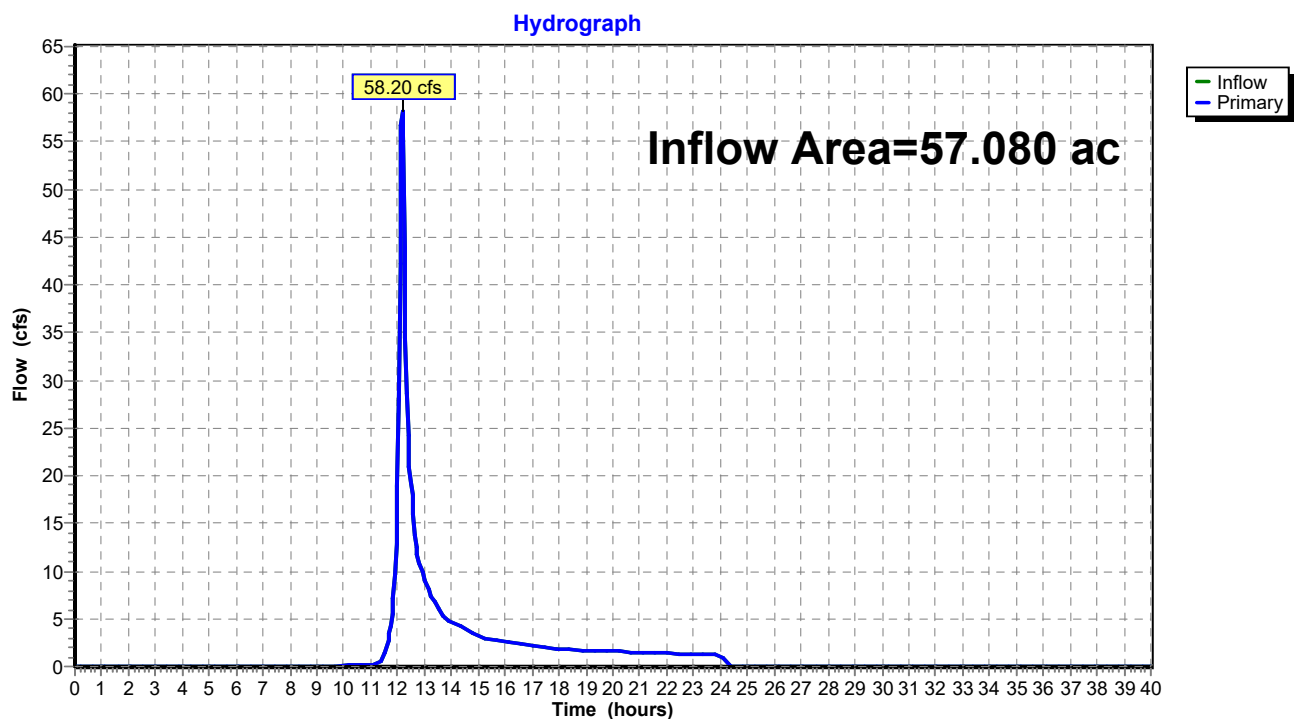
Hydrograph



Summary for Link XDA-6: Existing Drainage Area #6

Inflow Area = 57.080 ac, 1.33% Impervious, Inflow Depth = 0.95" for Current 2 yr event
Inflow = 58.20 cfs @ 12.17 hrs, Volume= 4.500 af
Primary = 58.20 cfs @ 12.17 hrs, Volume= 4.500 af, Atten= 0%, Lag= 0.0 min
Routed to nonexistent node DP-3

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

Link XDA-6: Existing Drainage Area #6

Summary for Subcatchment X-6I: XDA-6 (impervious)

Runoff = 3.66 cfs @ 12.16 hrs, Volume= 0.306 af, Depth= 4.83"

Routed to Link XDA-6 : Existing Drainage Area #6

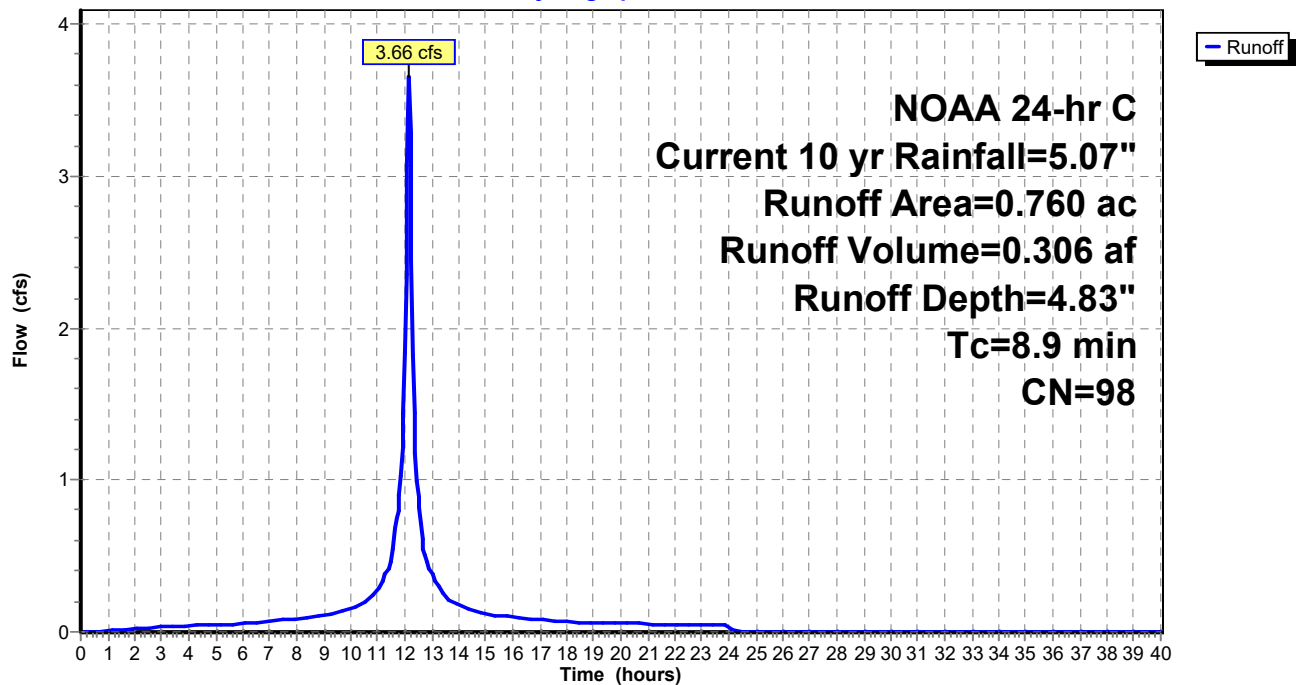
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.07"

Area (ac)	CN	Description
* 0.760	98	
0.760		100.00% Impervious Area

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

Subcatchment X-6I: XDA-6 (impervious)

Hydrograph



Summary for Subcatchment X-6P: XDA-6 (pervious)

Runoff = 135.05 cfs @ 12.17 hrs, Volume= 9.801 af, Depth= 2.09"
 Routed to Link XDA-6 : Existing Drainage Area #6

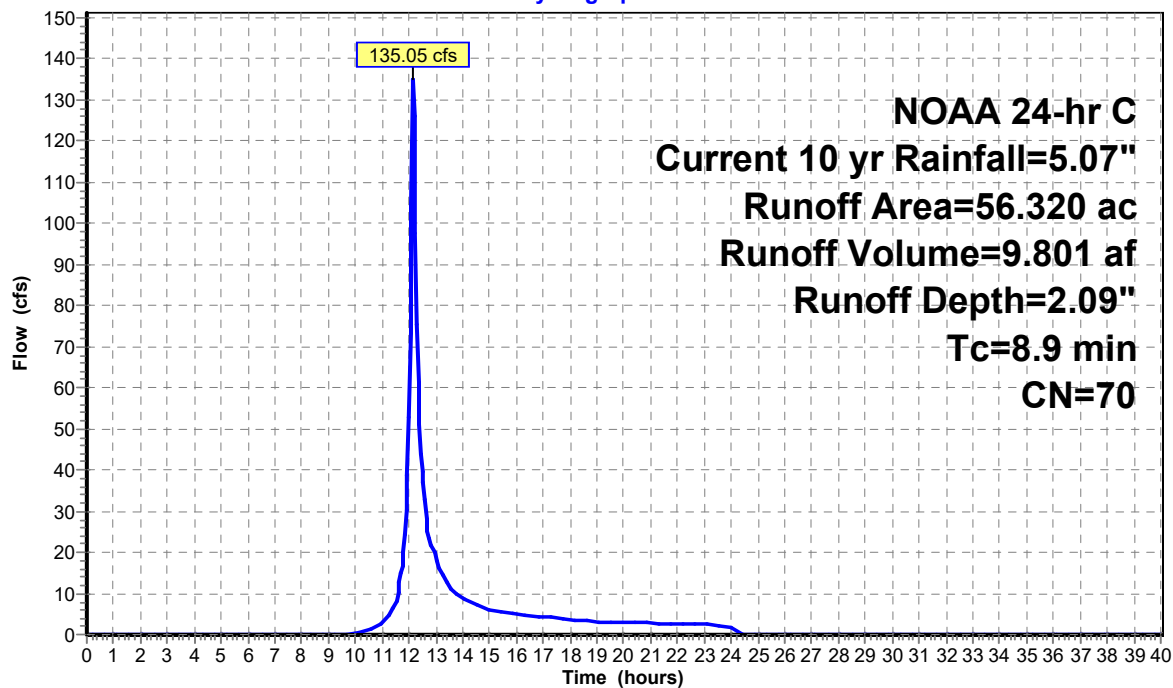
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.07"

Area (ac)	CN	Description
6.820	55	Woods, Good, HSG B
10.710	70	Woods, Good, HSG C
4.480	77	Woods, Good, HSG D
29.650	71	Row crops, C&T, Good, HSG B
4.540	78	Row crops, C&T, Good, HSG C
0.120	81	Row crops, C&T, Good, HSG D
56.320	70	Weighted Average
56.320		100.00% Pervious Area

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

Subcatchment X-6P: XDA-6 (pervious)

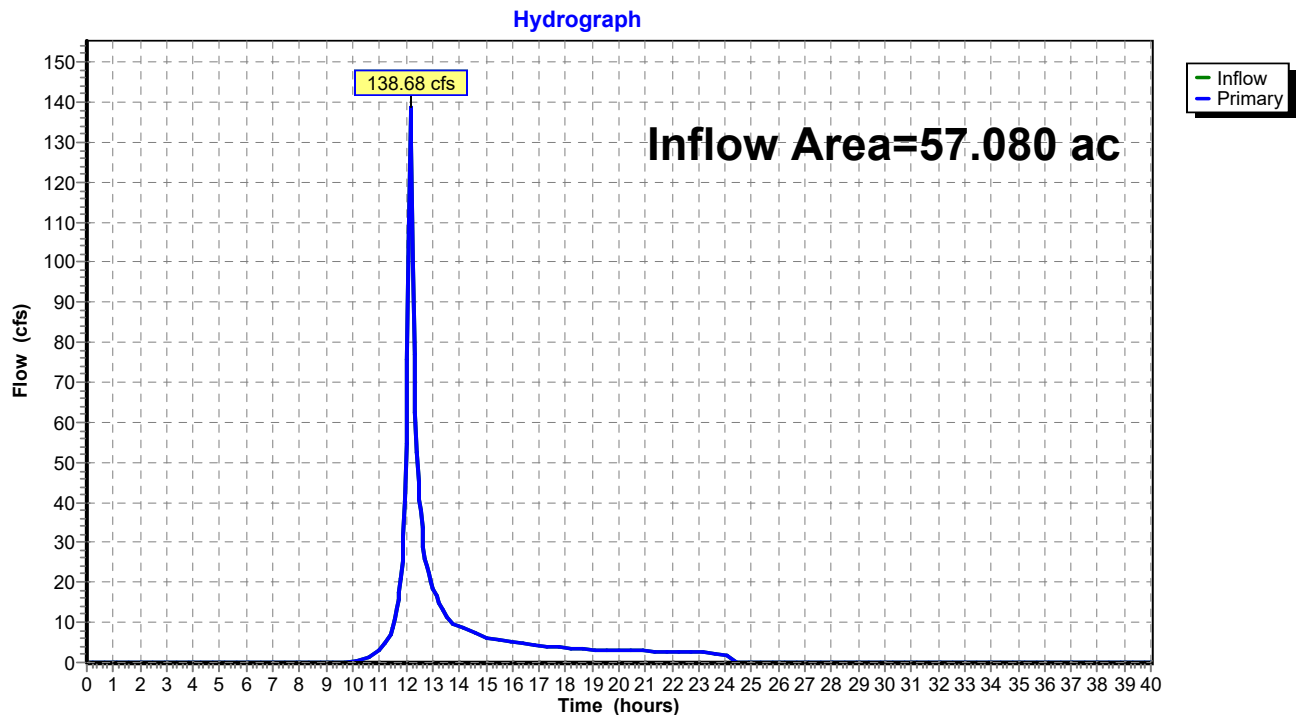
Hydrograph



Summary for Link XDA-6: Existing Drainage Area #6

Inflow Area = 57.080 ac, 1.33% Impervious, Inflow Depth = 2.12" for Current 10 yr event
Inflow = 138.68 cfs @ 12.16 hrs, Volume= 10.108 af
Primary = 138.68 cfs @ 12.16 hrs, Volume= 10.108 af, Atten= 0%, Lag= 0.0 min
Routed to nonexistent node DP-3

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

Link XDA-6: Existing Drainage Area #6

Summary for Subcatchment X-6I: XDA-6 (impervious)

Runoff = 6.11 cfs @ 12.16 hrs, Volume= 0.519 af, Depth= 8.20"
 Routed to Link XDA-6 : Existing Drainage Area #6

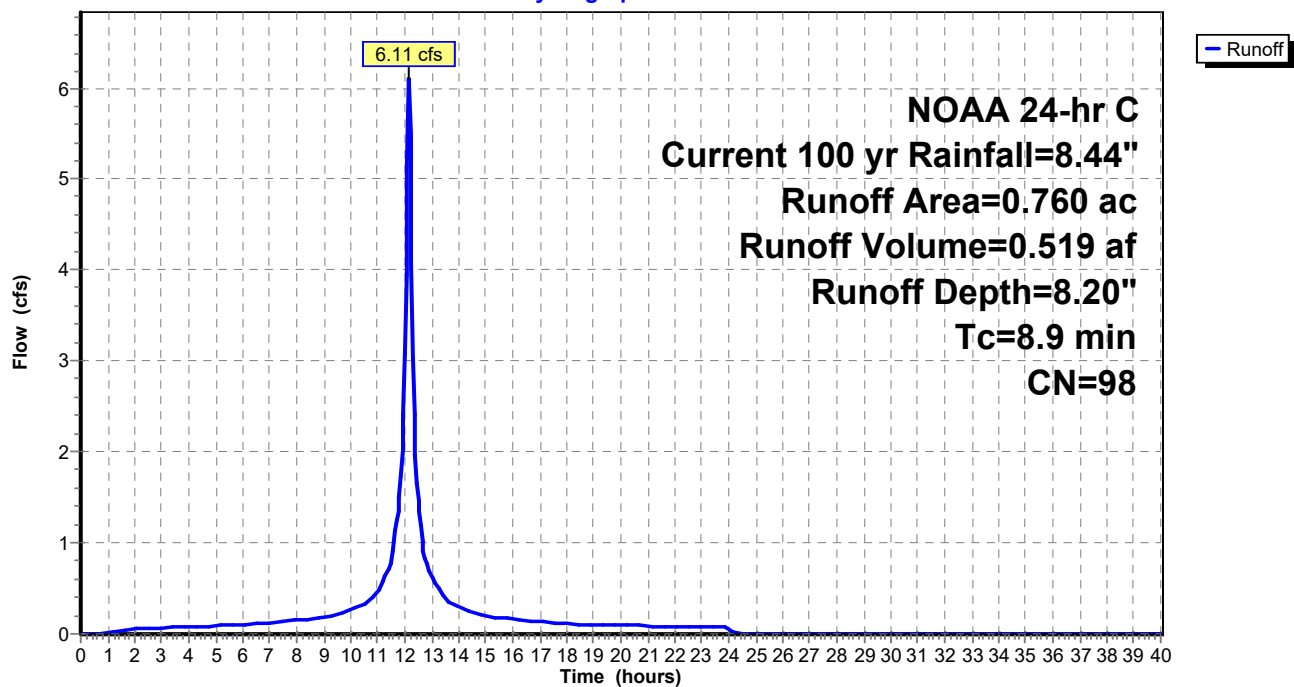
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 100 yr Rainfall=8.44"

Area (ac)	CN	Description
* 0.760	98	
0.760		100.00% Impervious Area

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

Subcatchment X-6I: XDA-6 (impervious)

Hydrograph



Summary for Subcatchment X-6P: XDA-6 (pervious)

Runoff = 314.76 cfs @ 12.16 hrs, Volume= 22.738 af, Depth= 4.84"

Routed to Link XDA-6 : Existing Drainage Area #6

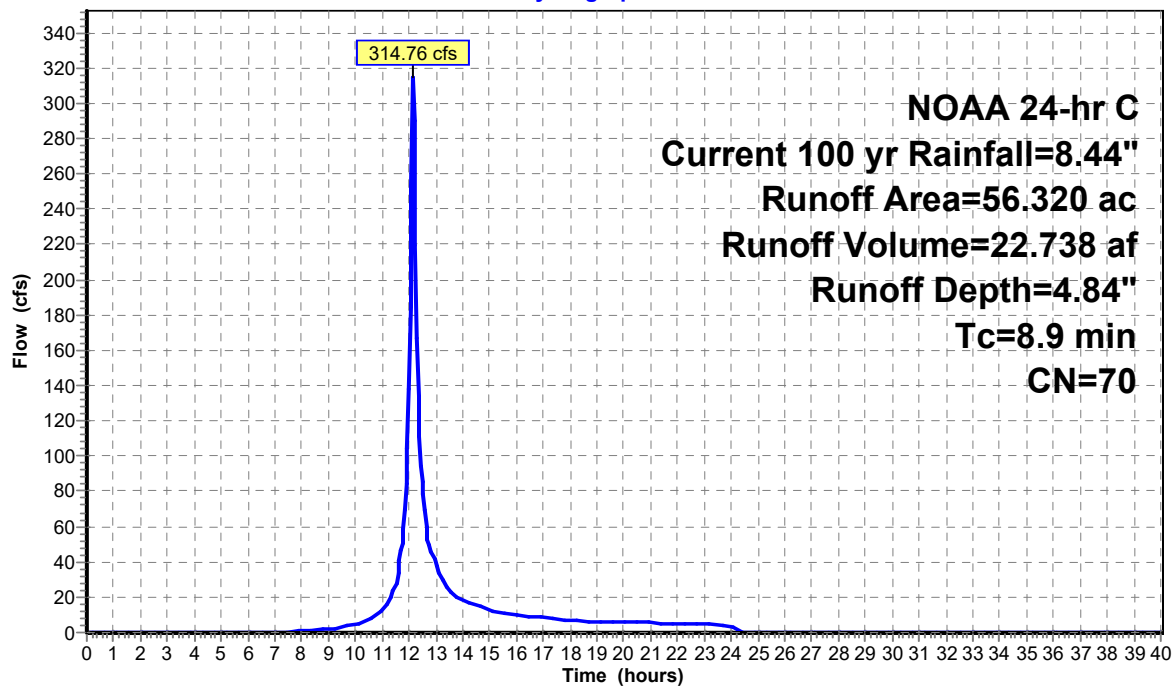
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 100 yr Rainfall=8.44"

Area (ac)	CN	Description
6.820	55	Woods, Good, HSG B
10.710	70	Woods, Good, HSG C
4.480	77	Woods, Good, HSG D
29.650	71	Row crops, C&T, Good, HSG B
4.540	78	Row crops, C&T, Good, HSG C
0.120	81	Row crops, C&T, Good, HSG D
56.320	70	Weighted Average
56.320		100.00% Pervious Area

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

Subcatchment X-6P: XDA-6 (pervious)

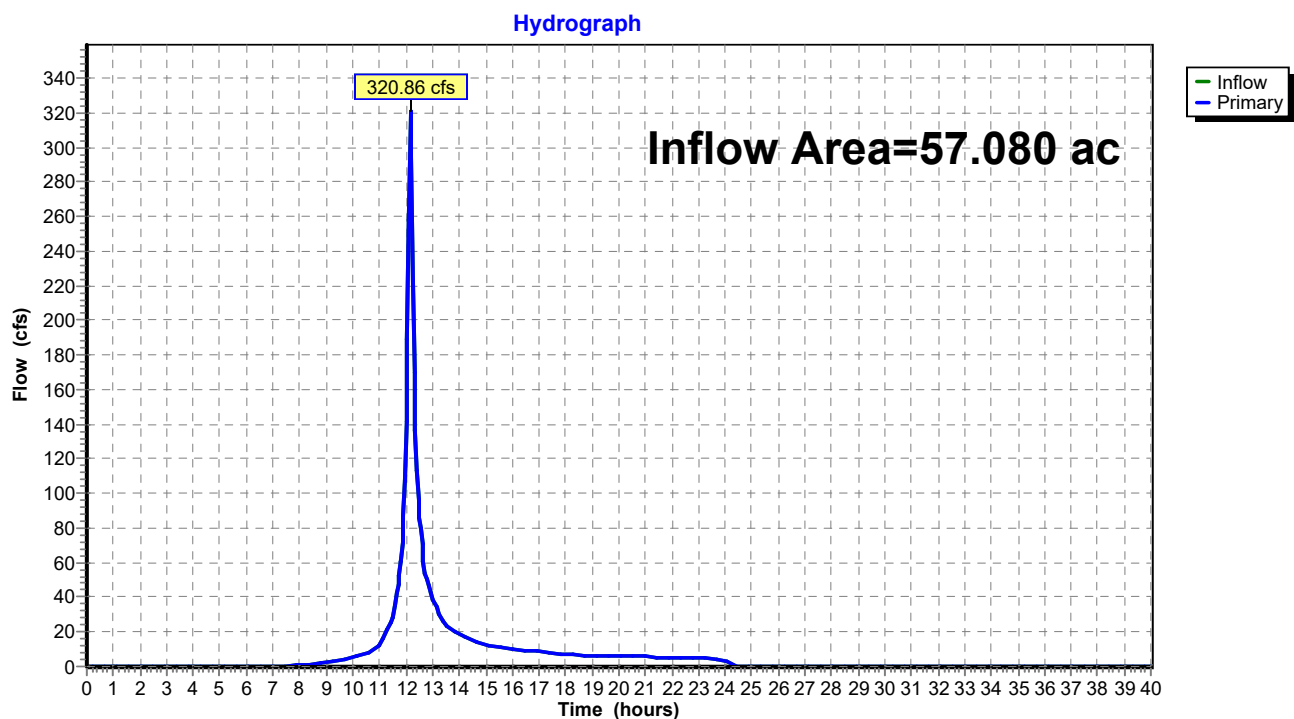
Hydrograph



Summary for Link XDA-6: Existing Drainage Area #6

Inflow Area = 57.080 ac, 1.33% Impervious, Inflow Depth = 4.89" for Current 100 yr event
Inflow = 320.86 cfs @ 12.16 hrs, Volume= 23.257 af
Primary = 320.86 cfs @ 12.16 hrs, Volume= 23.257 af, Atten= 0%, Lag= 0.0 min
Routed to nonexistent node DP-3

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

Link XDA-6: Existing Drainage Area #6

Summary for Subcatchment X-6I: XDA-6 (impervious)

Runoff = 2.77 cfs @ 12.16 hrs, Volume= 0.229 af, Depth= 3.62"
 Routed to Link XDA-6 : Existing Drainage Area #6

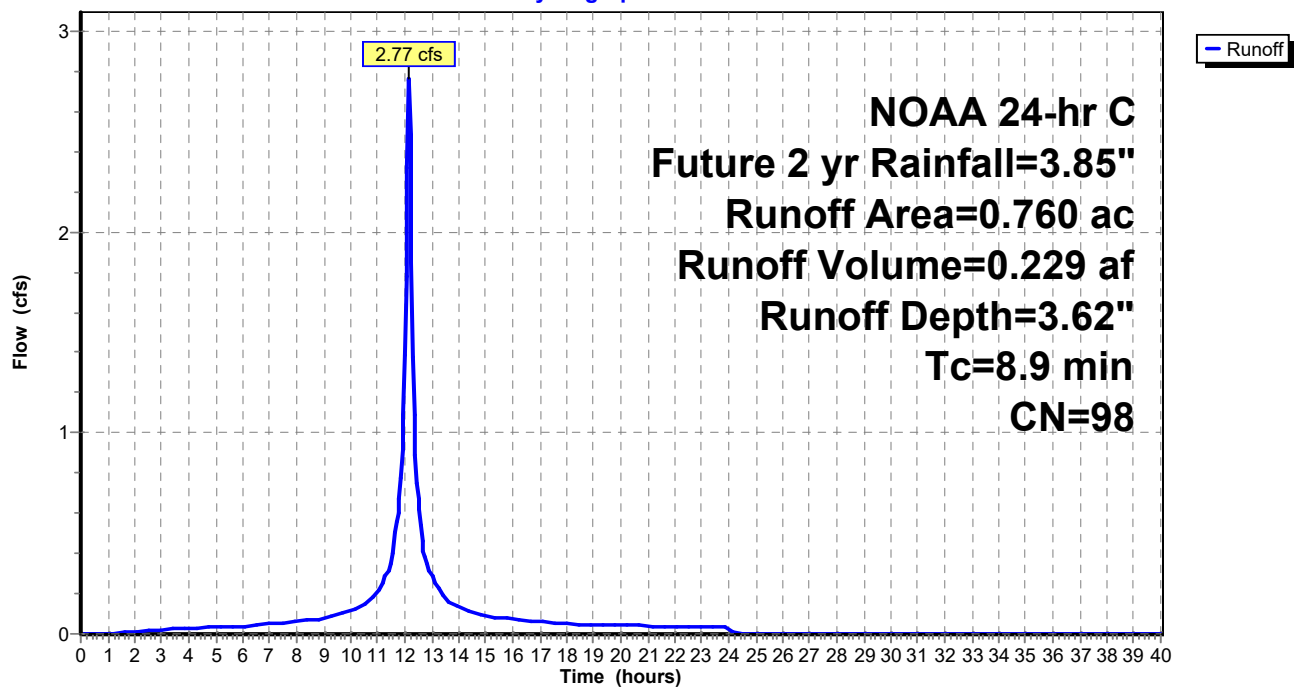
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 2 yr Rainfall=3.85"

Area (ac)	CN	Description
* 0.760	98	
0.760		100.00% Impervious Area

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

Subcatchment X-6I: XDA-6 (impervious)

Hydrograph



Summary for Subcatchment X-6P: XDA-6 (pervious)

Runoff = 77.25 cfs @ 12.17 hrs, Volume= 5.776 af, Depth= 1.23"
 Routed to Link XDA-6 : Existing Drainage Area #6

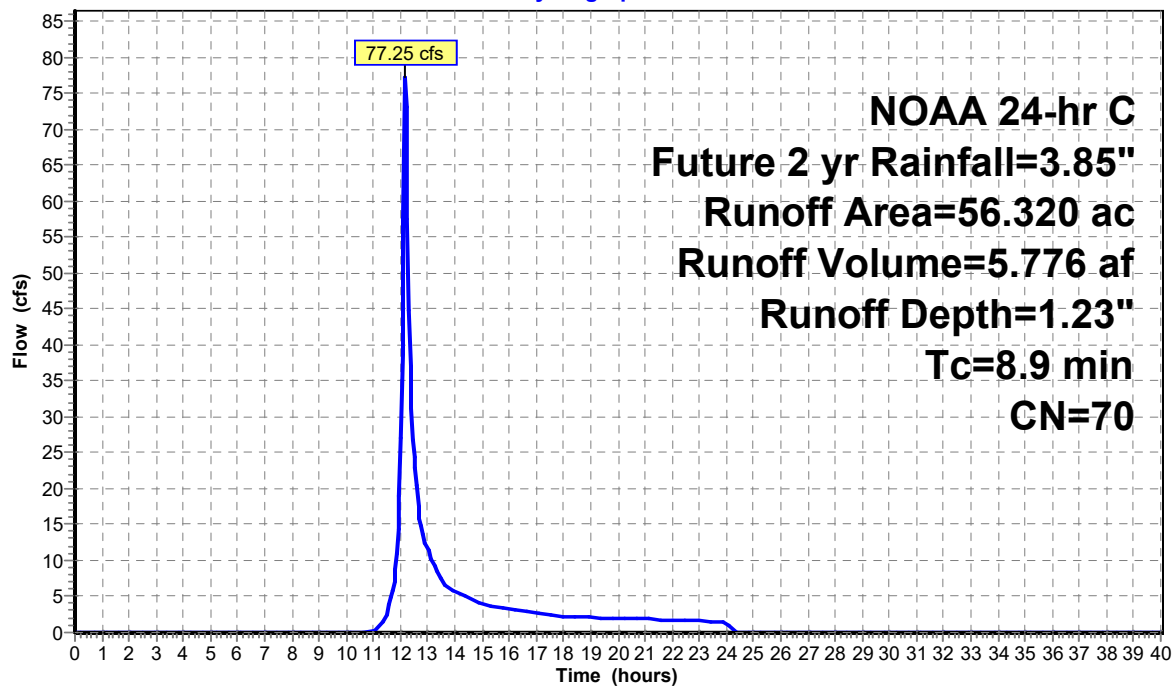
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 2 yr Rainfall=3.85"

Area (ac)	CN	Description
6.820	55	Woods, Good, HSG B
10.710	70	Woods, Good, HSG C
4.480	77	Woods, Good, HSG D
29.650	71	Row crops, C&T, Good, HSG B
4.540	78	Row crops, C&T, Good, HSG C
0.120	81	Row crops, C&T, Good, HSG D
56.320	70	Weighted Average
56.320		100.00% Pervious Area

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

Subcatchment X-6P: XDA-6 (pervious)

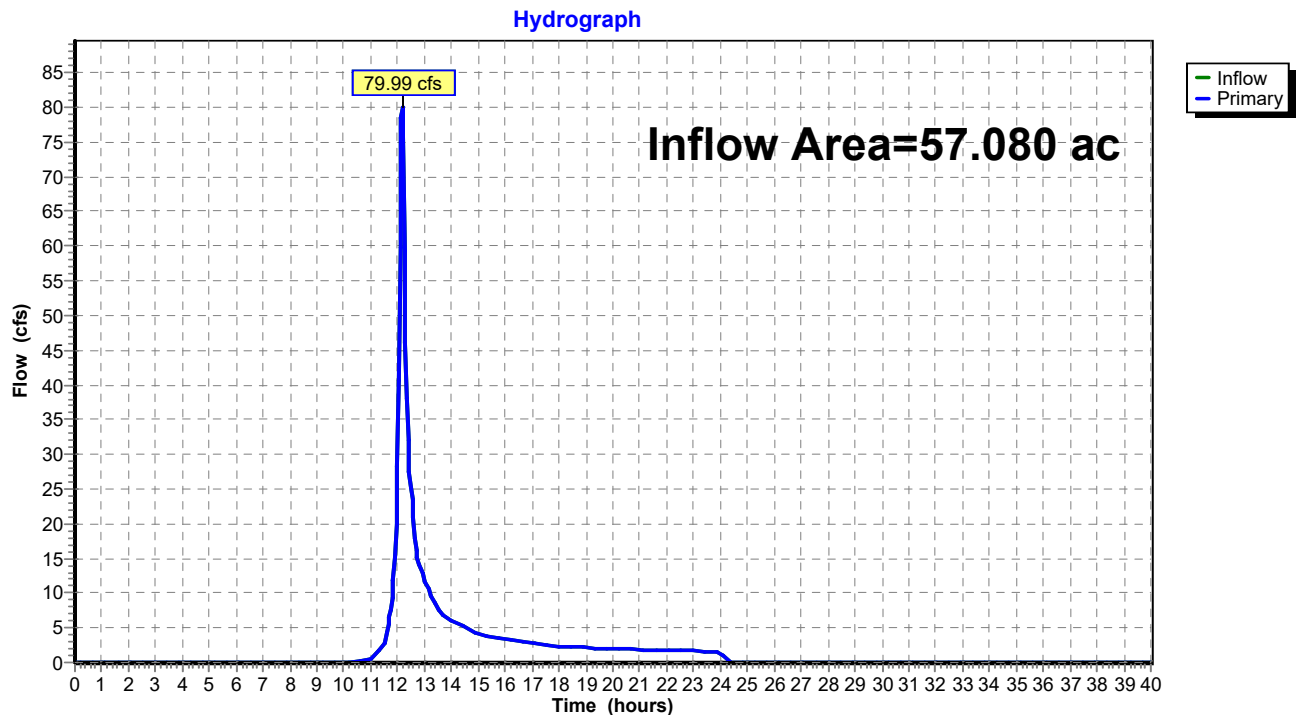
Hydrograph



Summary for Link XDA-6: Existing Drainage Area #6

Inflow Area = 57.080 ac, 1.33% Impervious, Inflow Depth = 1.26" for Future 2 yr event
Inflow = 79.99 cfs @ 12.17 hrs, Volume= 6.005 af
Primary = 79.99 cfs @ 12.17 hrs, Volume= 6.005 af, Atten= 0%, Lag= 0.0 min
Routed to nonexistent node DP-3

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

Link XDA-6: Existing Drainage Area #6

Summary for Subcatchment X-6I: XDA-6 (impervious)

Runoff = 4.19 cfs @ 12.16 hrs, Volume= 0.353 af, Depth= 5.57"
 Routed to Link XDA-6 : Existing Drainage Area #6

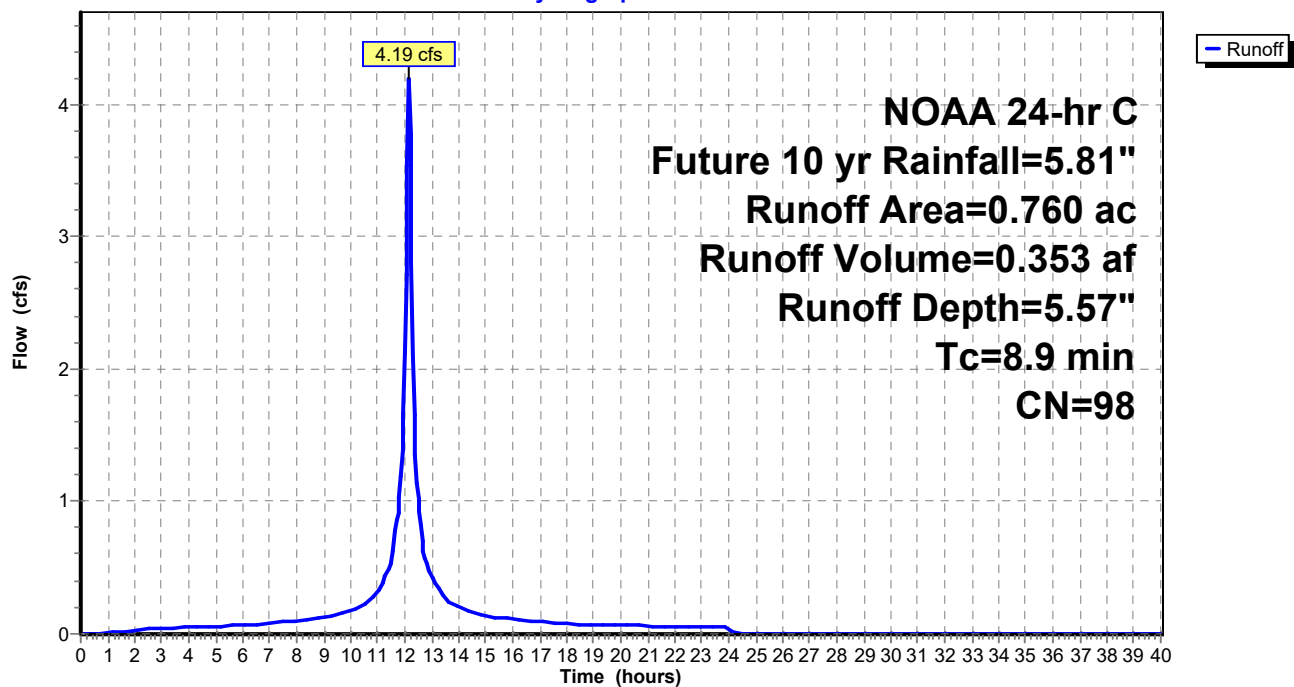
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 10 yr Rainfall=5.81"

Area (ac)	CN	Description
* 0.760	98	
0.760		100.00% Impervious Area

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

Subcatchment X-6I: XDA-6 (impervious)

Hydrograph



Summary for Subcatchment X-6P: XDA-6 (pervious)

Runoff = 172.70 cfs @ 12.16 hrs, Volume= 12.462 af, Depth= 2.66"

Routed to Link XDA-6 : Existing Drainage Area #6

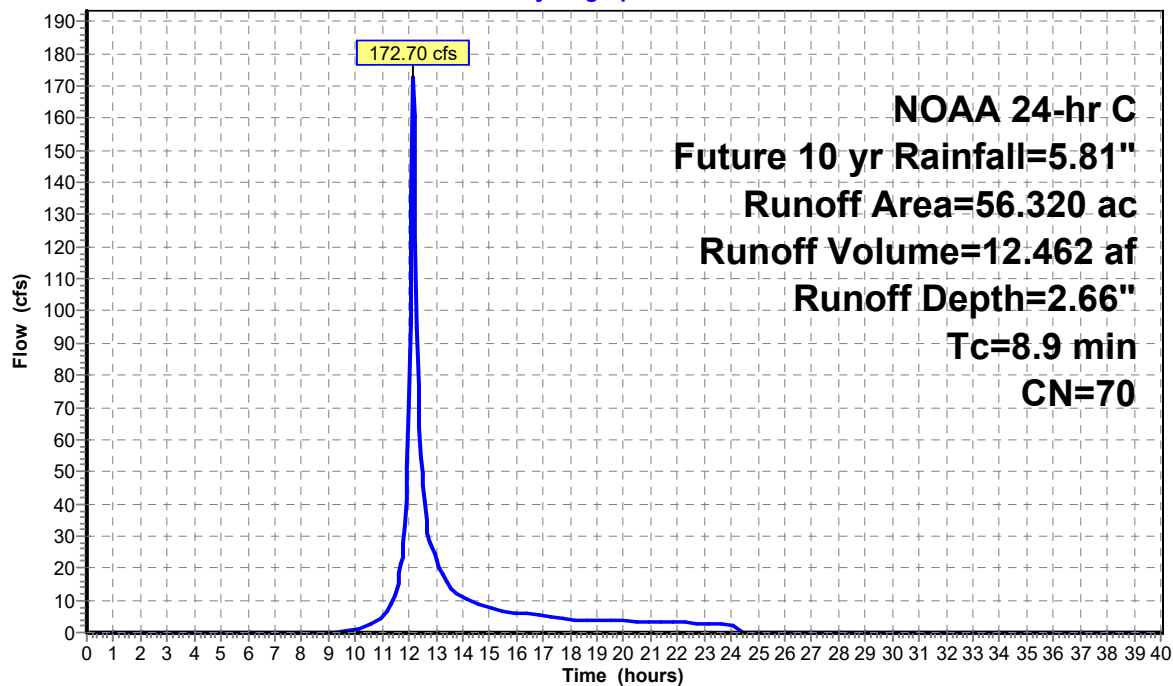
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 10 yr Rainfall=5.81"

Area (ac)	CN	Description
6.820	55	Woods, Good, HSG B
10.710	70	Woods, Good, HSG C
4.480	77	Woods, Good, HSG D
29.650	71	Row crops, C&T, Good, HSG B
4.540	78	Row crops, C&T, Good, HSG C
0.120	81	Row crops, C&T, Good, HSG D
56.320	70	Weighted Average
56.320		100.00% Pervious Area

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

Subcatchment X-6P: XDA-6 (pervious)

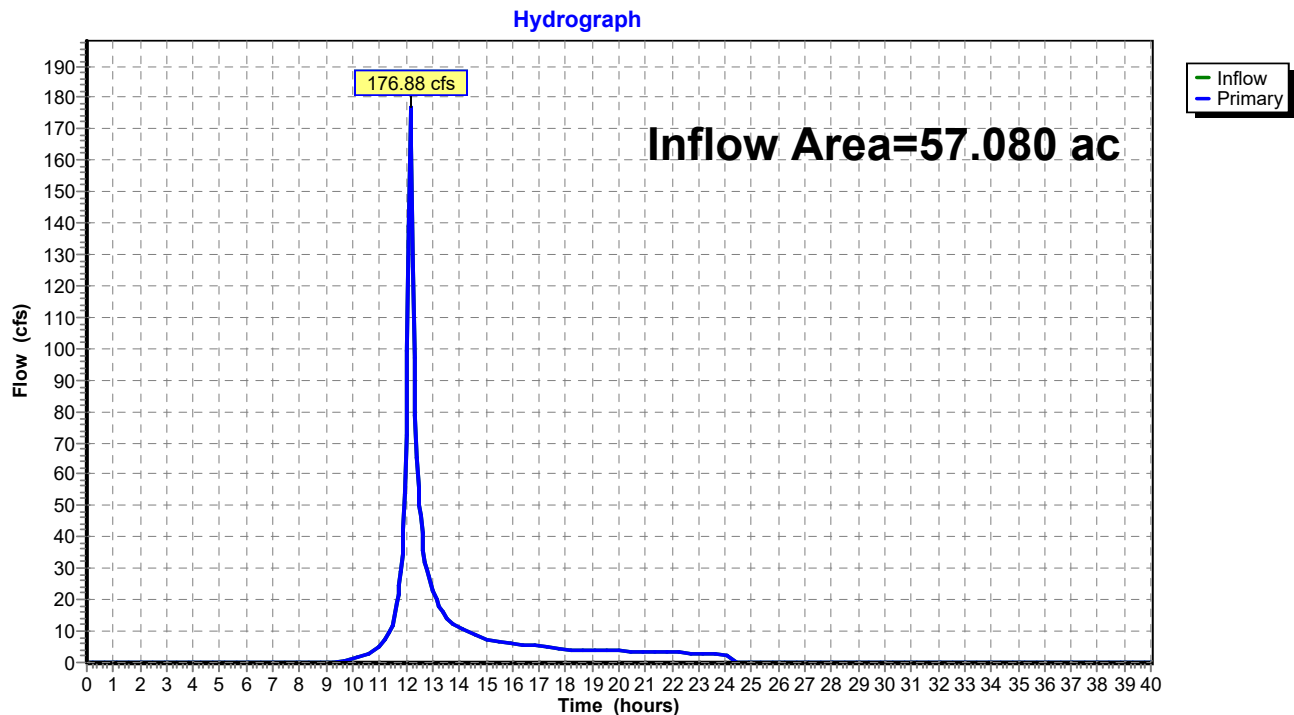
Hydrograph



Summary for Link XDA-6: Existing Drainage Area #6

Inflow Area = 57.080 ac, 1.33% Impervious, Inflow Depth = 2.69" for Future 10 yr event
Inflow = 176.88 cfs @ 12.16 hrs, Volume= 12.815 af
Primary = 176.88 cfs @ 12.16 hrs, Volume= 12.815 af, Atten= 0%, Lag= 0.0 min
Routed to nonexistent node DP-3

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

Link XDA-6: Existing Drainage Area #6

Summary for Subcatchment X-6I: XDA-6 (impervious)

Runoff = 7.99 cfs @ 12.16 hrs, Volume= 0.684 af, Depth=10.80"
 Routed to Link XDA-6 : Existing Drainage Area #6

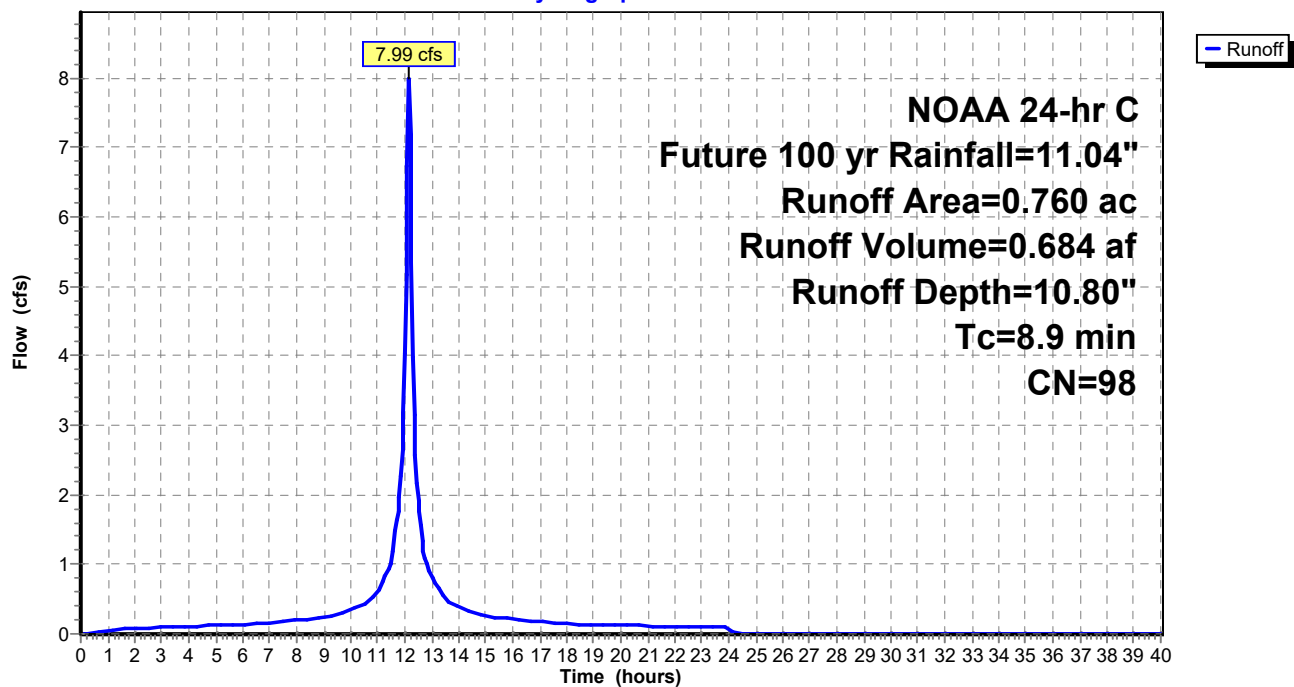
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Future 100 yr Rainfall=11.04"

Area (ac)	CN	Description
* 0.760	98	
0.760		100.00% Impervious Area

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

Subcatchment X-6I: XDA-6 (impervious)

Hydrograph



Summary for Subcatchment X-6P: XDA-6 (pervious)

Runoff = 460.70 cfs @ 12.16 hrs, Volume= 33.635 af, Depth= 7.17"
Routed to Link XDA-6 : Existing Drainage Area #6

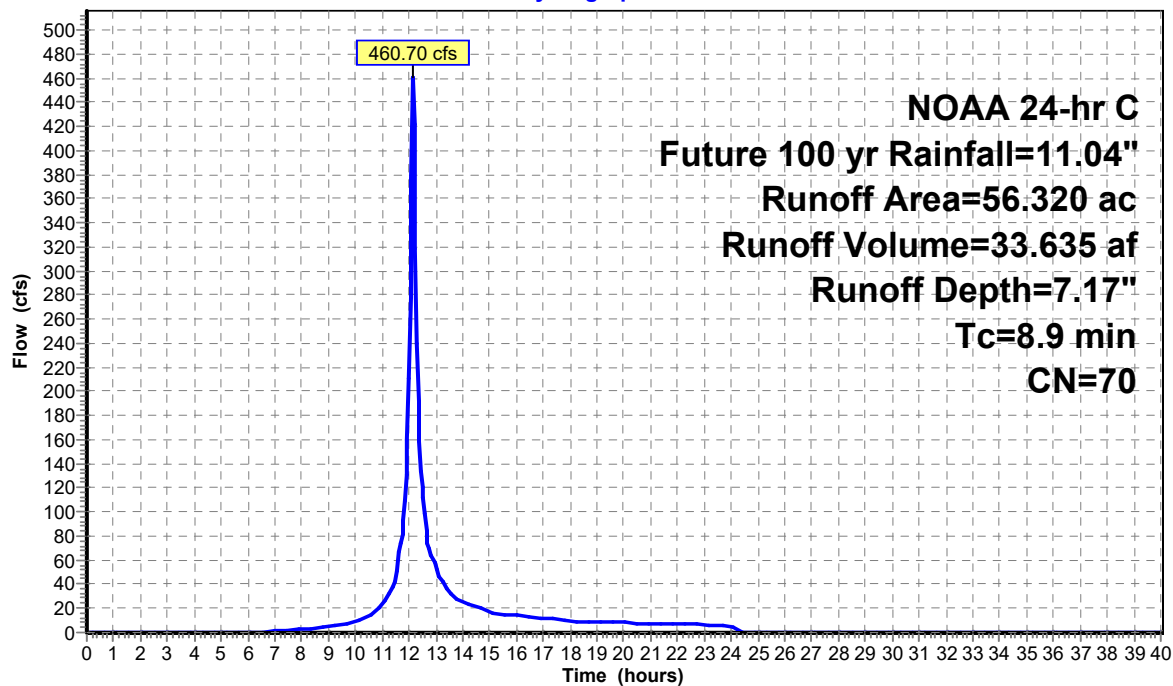
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Future 100 yr Rainfall=11.04"

Area (ac)	CN	Description
6.820	55	Woods, Good, HSG B
10.710	70	Woods, Good, HSG C
4.480	77	Woods, Good, HSG D
29.650	71	Row crops, C&T, Good, HSG B
4.540	78	Row crops, C&T, Good, HSG C
0.120	81	Row crops, C&T, Good, HSG D
56.320	70	Weighted Average
56.320		100.00% Pervious Area

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

Subcatchment X-6P: XDA-6 (pervious)

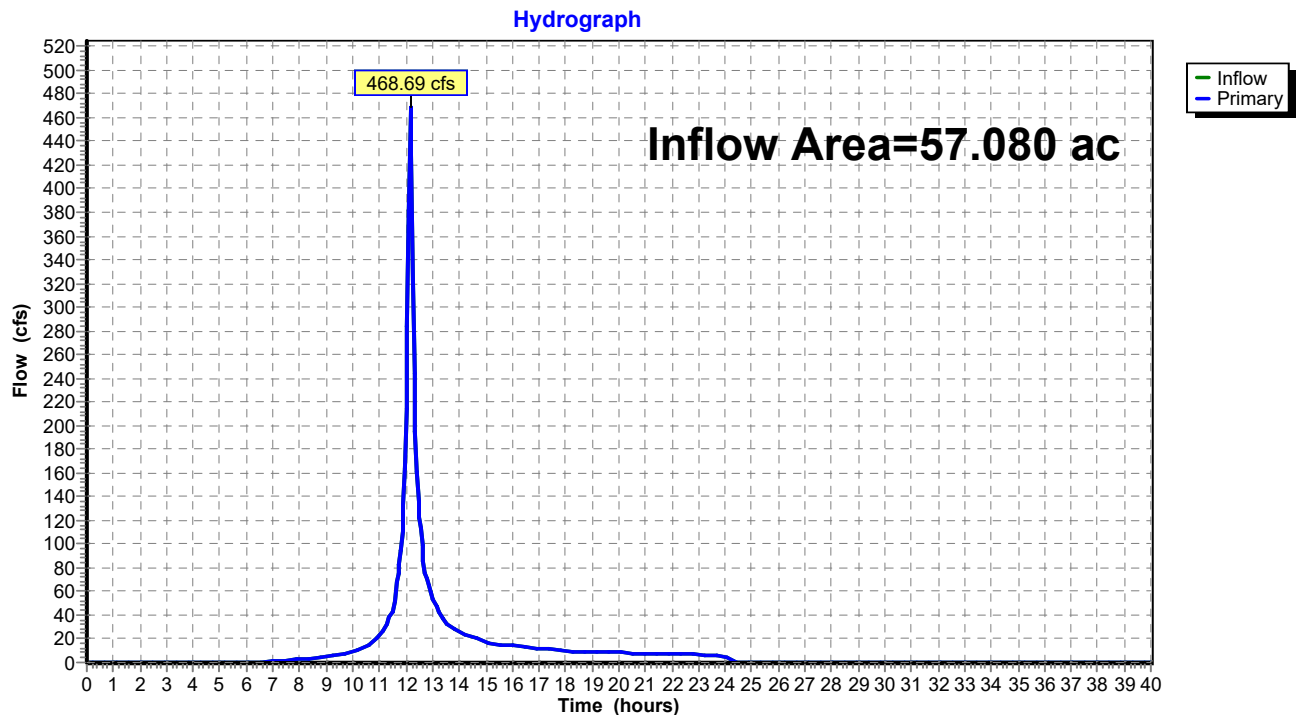
Hydrograph



Summary for Link XDA-6: Existing Drainage Area #6

Inflow Area = 57.080 ac, 1.33% Impervious, Inflow Depth = 7.21" for Future 100 yr event
Inflow = 468.69 cfs @ 12.16 hrs, Volume= 34.319 af
Primary = 468.69 cfs @ 12.16 hrs, Volume= 34.319 af, Atten= 0%, Lag= 0.0 min
Routed to nonexistent node DP-3

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

Link XDA-6: Existing Drainage Area #6

Summary for Subcatchment X-6I: XDA-6 (impervious)

Runoff = 2.38 cfs @ 12.16 hrs, Volume= 0.196 af, Depth= 3.09"
 Routed to Link XDA-6 : Existing Drainage Area #6

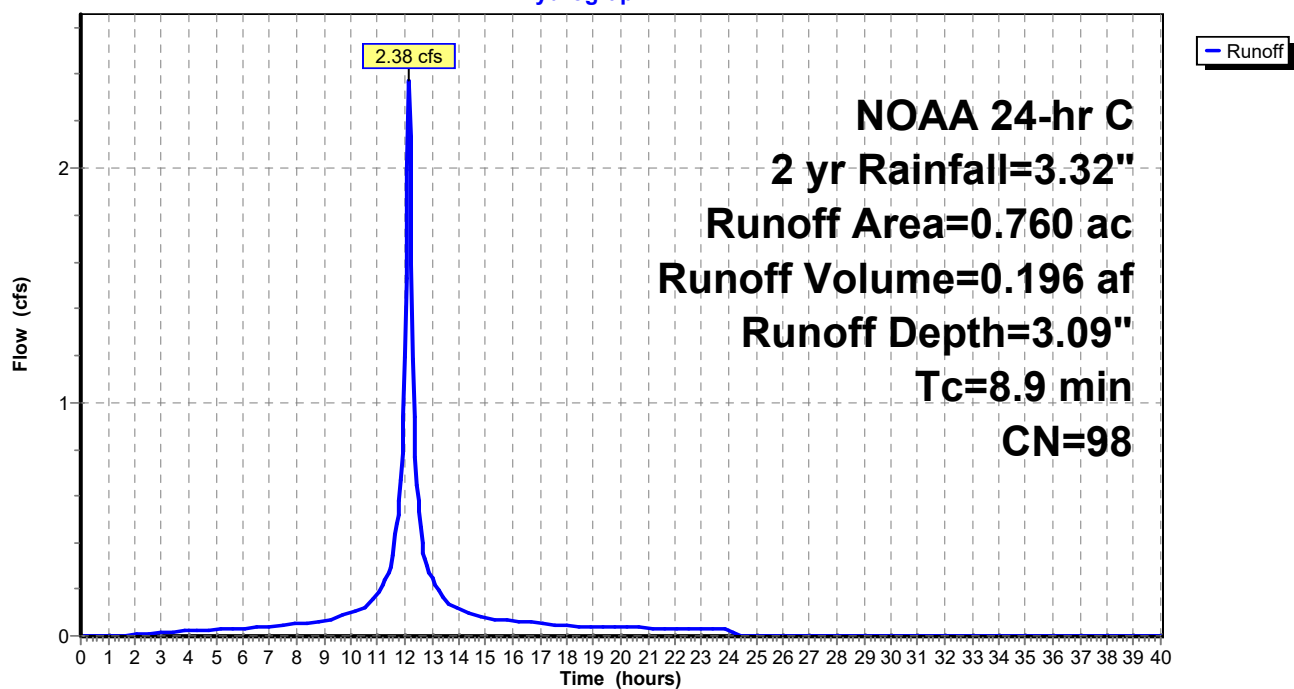
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C 2 yr Rainfall=3.32"

Area (ac)	CN	Description
* 0.760	98	
0.760		100.00% Impervious Area

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

Subcatchment X-6I: XDA-6 (impervious)

Hydrograph



Summary for Subcatchment X-6P: XDA-6 (pervious)

Runoff = 54.60 cfs @ 12.17 hrs, Volume= 4.218 af, Depth= 0.90"
Routed to Link XDA-6 : Existing Drainage Area #6

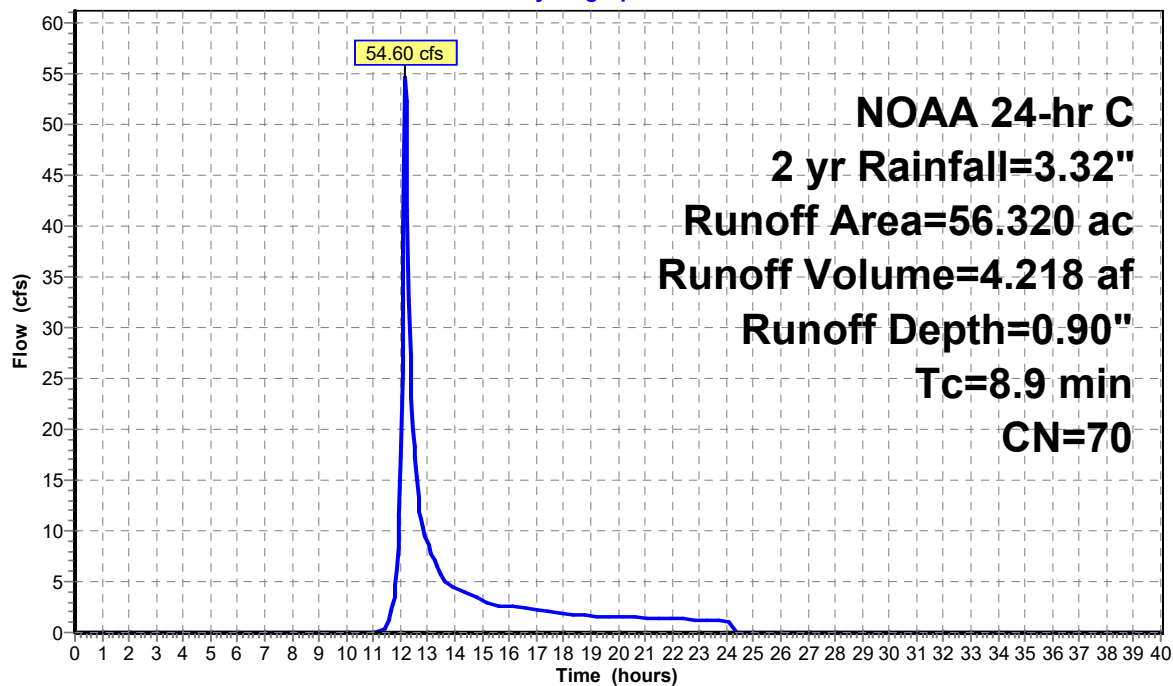
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C 2 yr Rainfall=3.32"

Area (ac)	CN	Description
6.820	55	Woods, Good, HSG B
10.710	70	Woods, Good, HSG C
4.480	77	Woods, Good, HSG D
29.650	71	Row crops, C&T, Good, HSG B
4.540	78	Row crops, C&T, Good, HSG C
0.120	81	Row crops, C&T, Good, HSG D
56.320	70	Weighted Average
56.320		100.00% Pervious Area

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

Subcatchment X-6P: XDA-6 (pervious)

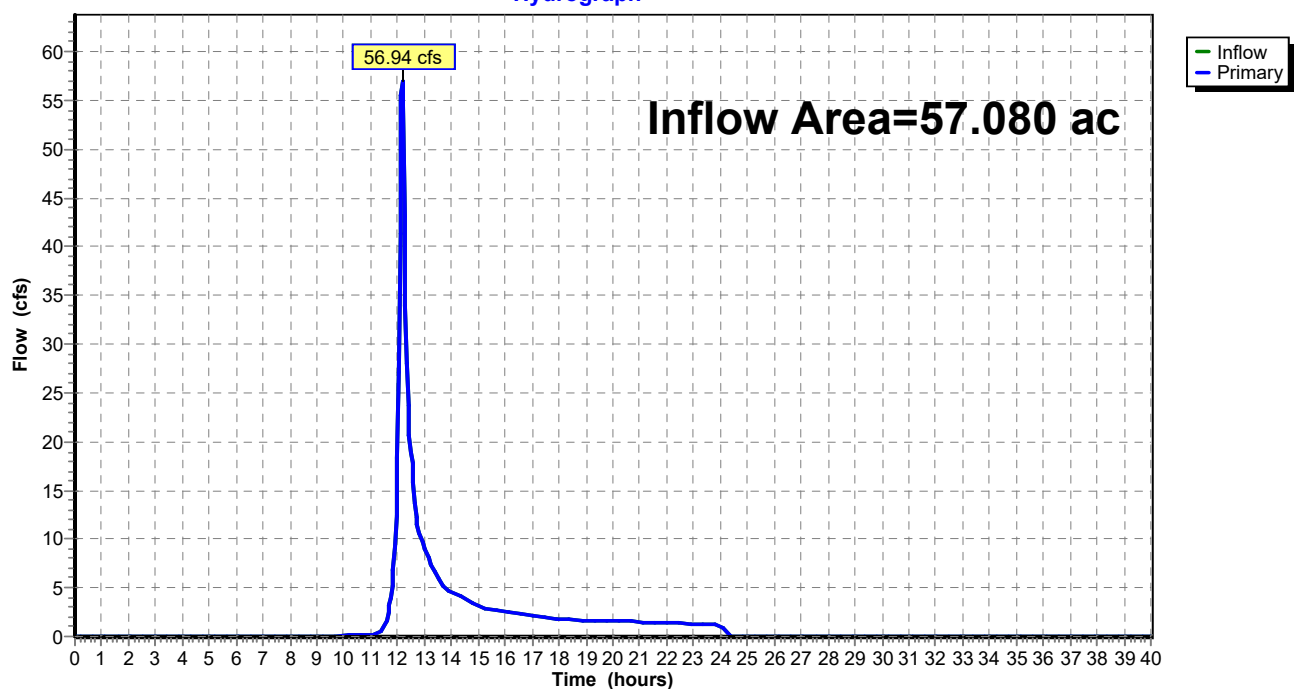
Hydrograph



Summary for Link XDA-6: Existing Drainage Area #6

Inflow Area = 57.080 ac, 1.33% Impervious, Inflow Depth = 0.93" for 2 yr event
Inflow = 56.94 cfs @ 12.17 hrs, Volume= 4.414 af
Primary = 56.94 cfs @ 12.17 hrs, Volume= 4.414 af, Atten= 0%, Lag= 0.0 min
Routed to nonexistent node DP-3

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

Link XDA-6: Existing Drainage Area #6**Hydrograph**

Summary for Subcatchment X-6I: XDA-6 (impervious)

Runoff = 3.60 cfs @ 12.16 hrs, Volume= 0.302 af, Depth= 4.76"

Routed to Link XDA-6 : Existing Drainage Area #6

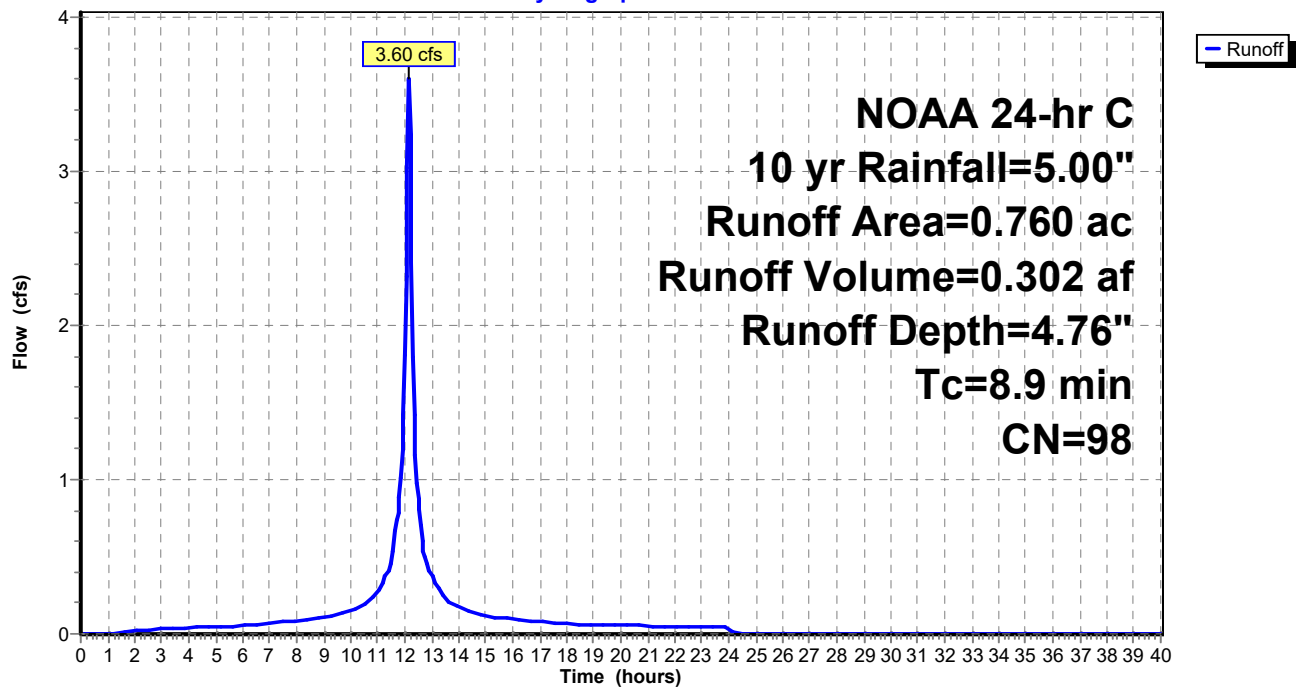
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C 10 yr Rainfall=5.00"

Area (ac)	CN	Description
* 0.760	98	
0.760		100.00% Impervious Area

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

Subcatchment X-6I: XDA-6 (impervious)

Hydrograph



Summary for Subcatchment X-6P: XDA-6 (pervious)

Runoff = 131.57 cfs @ 12.17 hrs, Volume= 9.557 af, Depth= 2.04"

Routed to Link XDA-6 : Existing Drainage Area #6

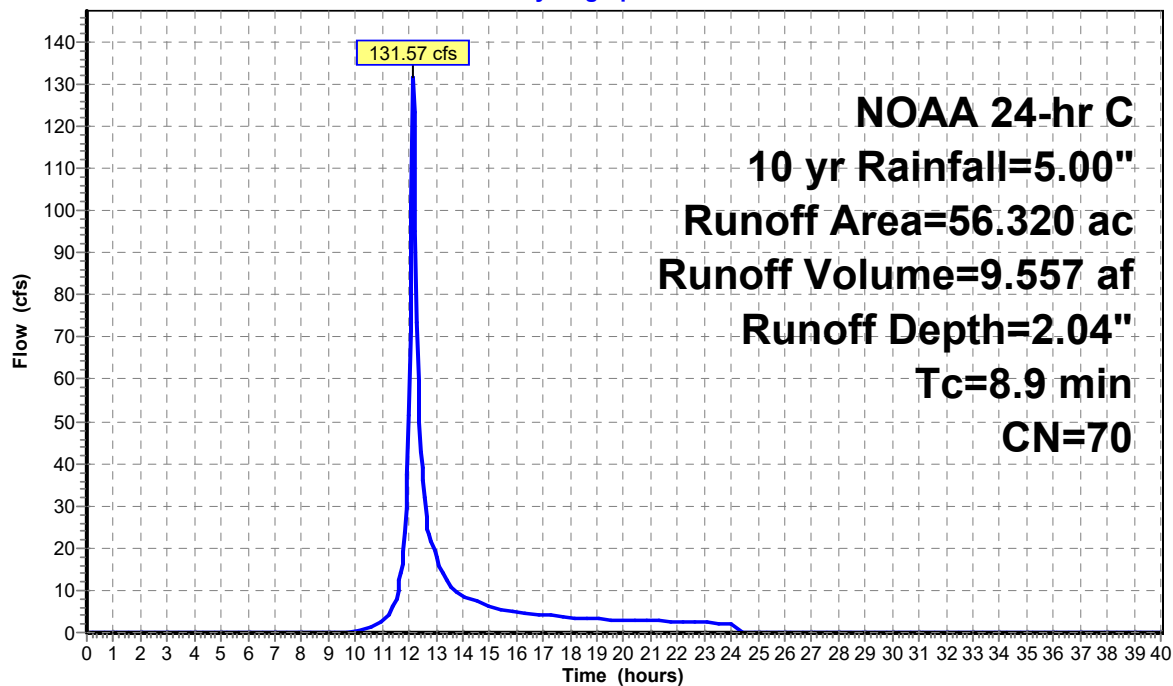
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C 10 yr Rainfall=5.00"

Area (ac)	CN	Description
6.820	55	Woods, Good, HSG B
10.710	70	Woods, Good, HSG C
4.480	77	Woods, Good, HSG D
29.650	71	Row crops, C&T, Good, HSG B
4.540	78	Row crops, C&T, Good, HSG C
0.120	81	Row crops, C&T, Good, HSG D
56.320	70	Weighted Average
56.320		100.00% Pervious Area

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

Subcatchment X-6P: XDA-6 (pervious)

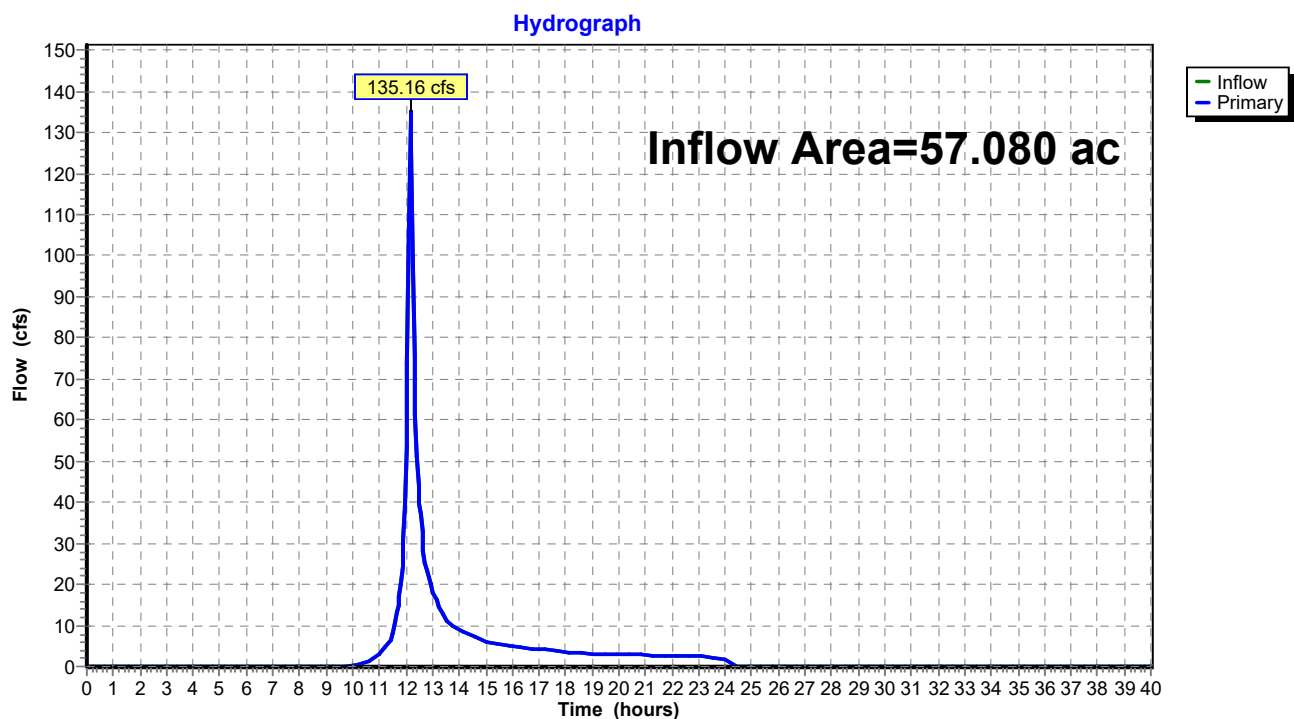
Hydrograph



Summary for Link XDA-6: Existing Drainage Area #6

Inflow Area = 57.080 ac, 1.33% Impervious, Inflow Depth = 2.07" for 10 yr event
Inflow = 135.16 cfs @ 12.17 hrs, Volume= 9.859 af
Primary = 135.16 cfs @ 12.17 hrs, Volume= 9.859 af, Atten= 0%, Lag= 0.0 min
Routed to nonexistent node DP-3

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

Link XDA-6: Existing Drainage Area #6

Summary for Subcatchment X-6I: XDA-6 (impervious)

Runoff = 5.97 cfs @ 12.16 hrs, Volume= 0.508 af, Depth= 8.02"
 Routed to Link XDA-6 : Existing Drainage Area #6

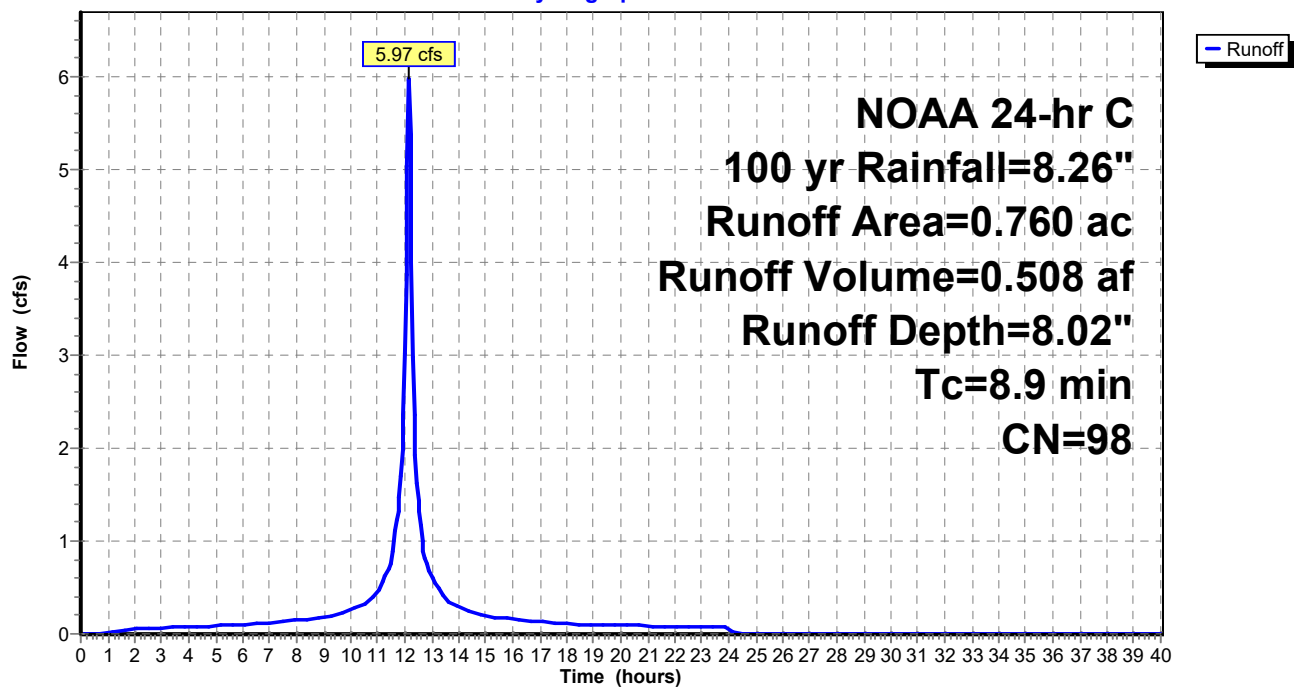
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C 100 yr Rainfall=8.26"

Area (ac)	CN	Description
* 0.760	98	
0.760		100.00% Impervious Area

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

Subcatchment X-6I: XDA-6 (impervious)

Hydrograph



Summary for Subcatchment X-6P: XDA-6 (pervious)

Runoff = 304.79 cfs @ 12.16 hrs, Volume= 22.005 af, Depth= 4.69"

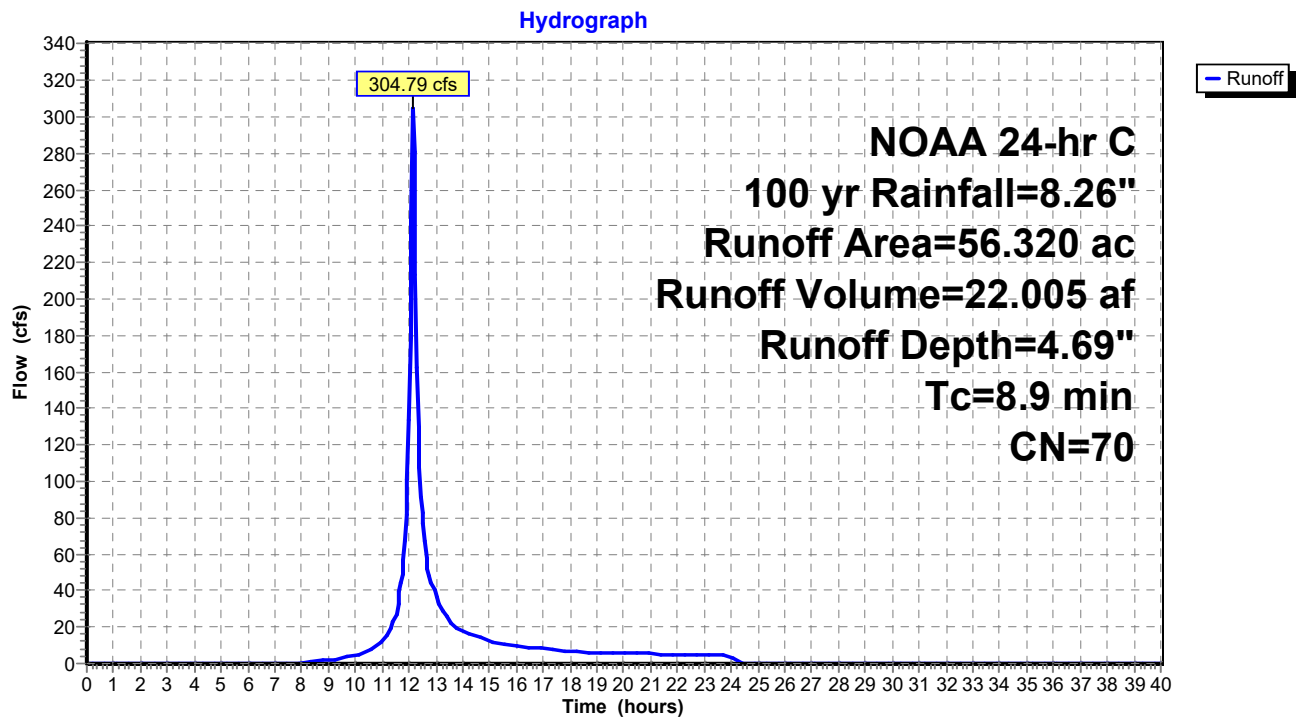
Routed to Link XDA-6 : Existing Drainage Area #6

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C 100 yr Rainfall=8.26"

Area (ac)	CN	Description
6.820	55	Woods, Good, HSG B
10.710	70	Woods, Good, HSG C
4.480	77	Woods, Good, HSG D
29.650	71	Row crops, C&T, Good, HSG B
4.540	78	Row crops, C&T, Good, HSG C
0.120	81	Row crops, C&T, Good, HSG D
56.320	70	Weighted Average
56.320		100.00% Pervious Area

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

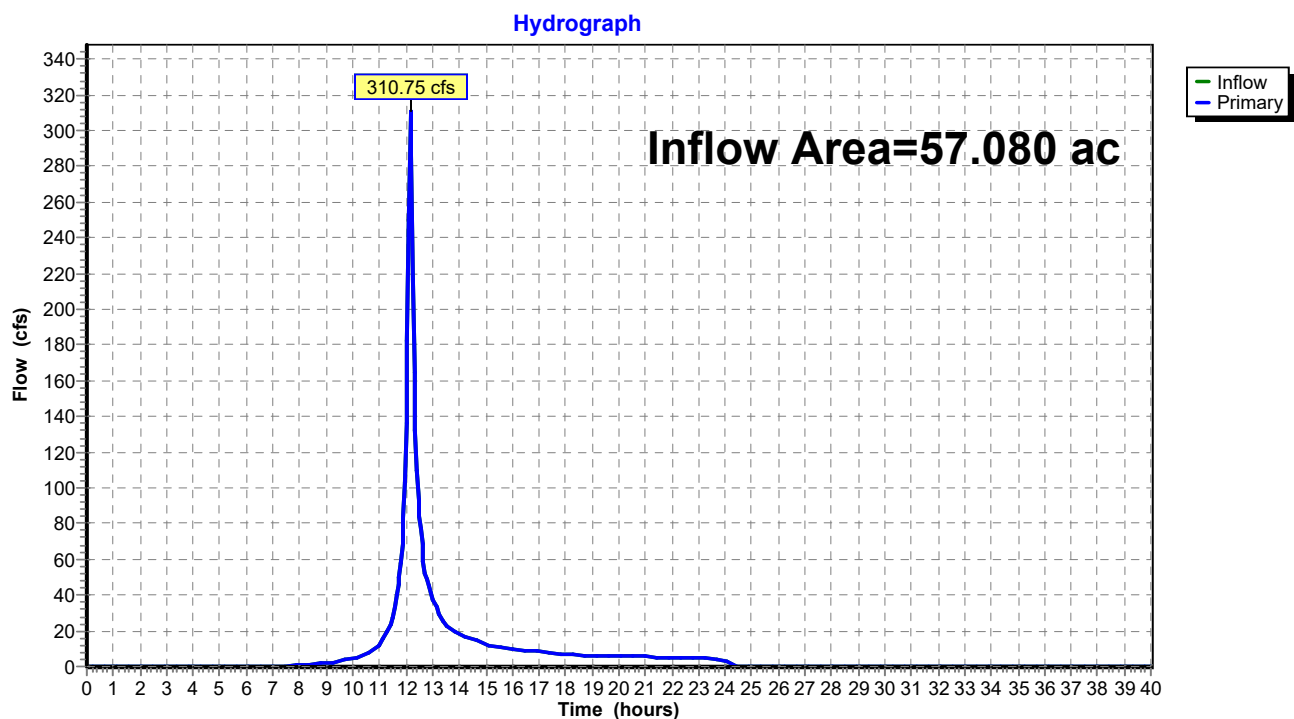
Subcatchment X-6P: XDA-6 (pervious)



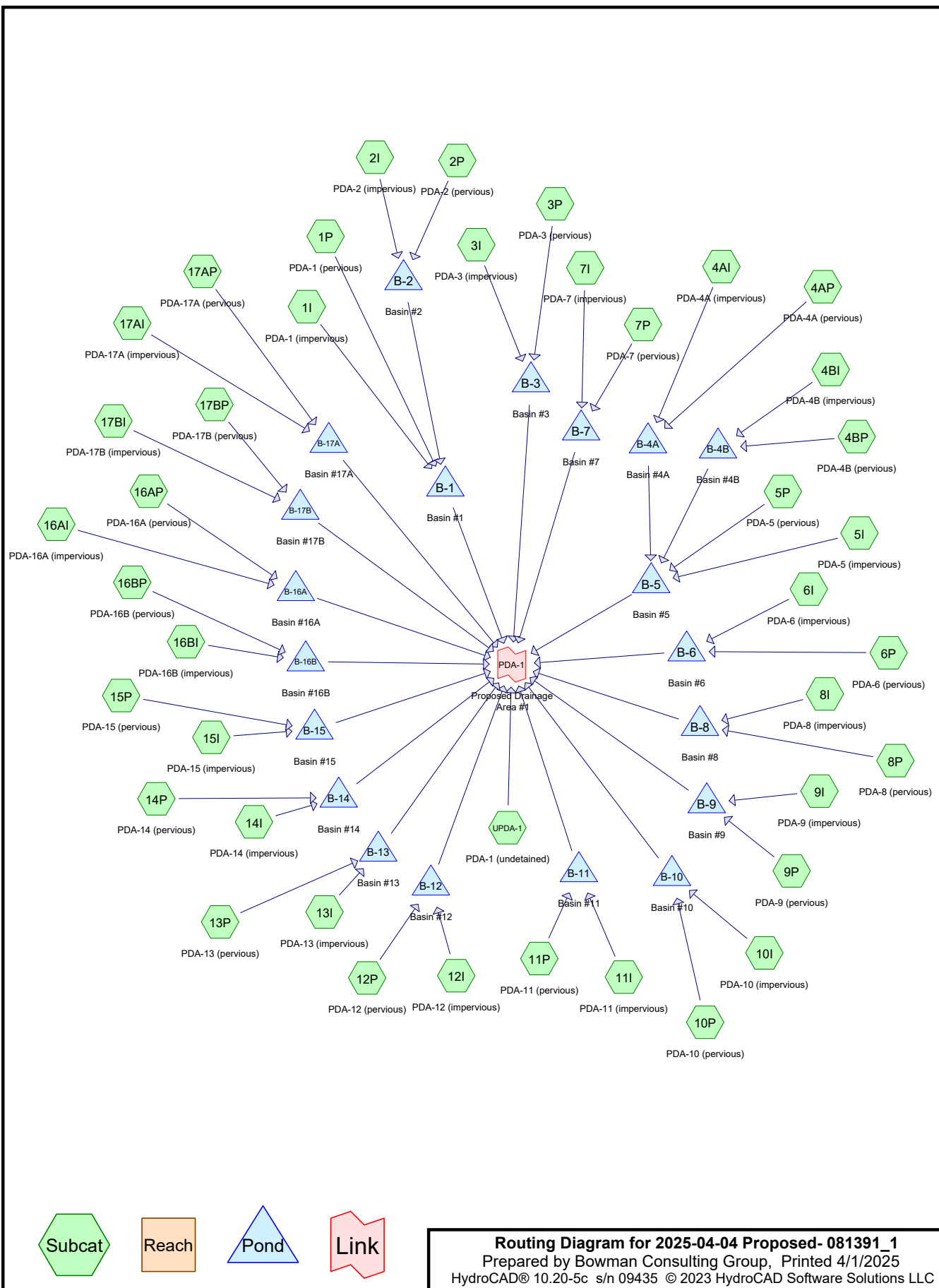
Summary for Link XDA-6: Existing Drainage Area #6

Inflow Area = 57.080 ac, 1.33% Impervious, Inflow Depth = 4.73" for 100 yr event
Inflow = 310.75 cfs @ 12.16 hrs, Volume= 22.513 af
Primary = 310.75 cfs @ 12.16 hrs, Volume= 22.513 af, Atten= 0%, Lag= 0.0 min
Routed to nonexistent node DP-3

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

Link XDA-6: Existing Drainage Area #6

APPENDIX 3
TR-55 CALCULATIONS – PROPOSED CONDITIONS



2025-04-04 Proposed- 081391_1

Prepared by Bowman Consulting Group

Printed 4/1/2025

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Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
75.275	74	>75% Grass cover, Good, HSG C (1P, 2P, 3P, 4AP, 4BP, 5P, 6P, 7P, 8P, 9P, 10P, 11P, 12P, 13P, 14P, 15P, 16AP, 16BP, 17AP, 17BP, UPDA-1)
1.245	98	Concrete, HSG C (2I, 3I, 4AI, 4BI, 6I, 7I, 9I, 10I, 11I, 12I, 13I, 14I, 15I, 16AI, 16BI)
0.907	98	Paved roads w/curbs & sewers, HSG C (11I)
6.769	98	Pavement, HSG C (2I, 3I, 4AI, 4BI, 6I, 7I, 9I, 10I, 12I, 13I, 14I, 15I, 16AI, 16BI)
5.664	98	Roof, HSG C (2I, 6I, 8I, 9I, 10I, 12I, 13I, 14I, 15I, 16AI, 16BI, 17AI, 17BI)
0.231	98	Roofs, HSG C (11I)
0.257	98	Unconnected roofs, HSG C (3I)
90.348	78	TOTAL AREA

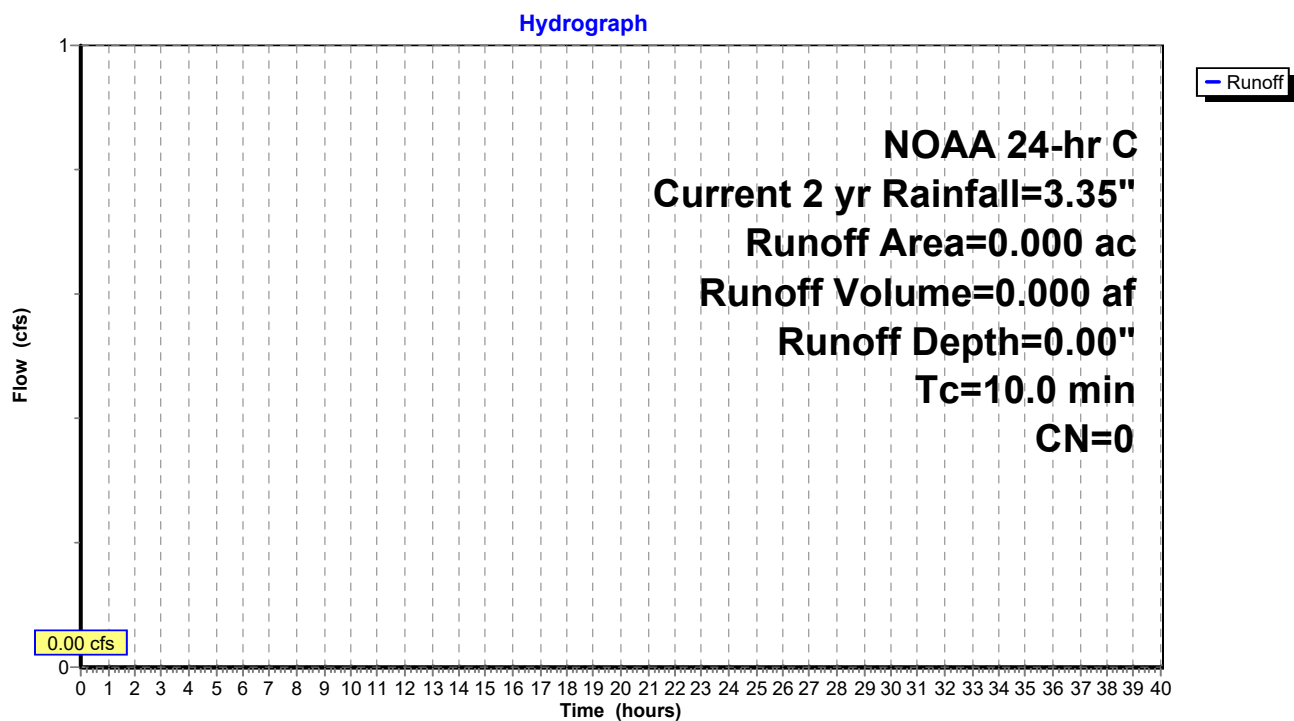
Summary for Subcatchment 1I: PDA-1 (impervious)

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

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

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

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

Subcatchment 1I: PDA-1 (impervious)

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

Runoff = 1.09 cfs @ 12.18 hrs, Volume= 0.084 af, Depth= 1.14"
 Routed to Pond B-1 : Basin #1

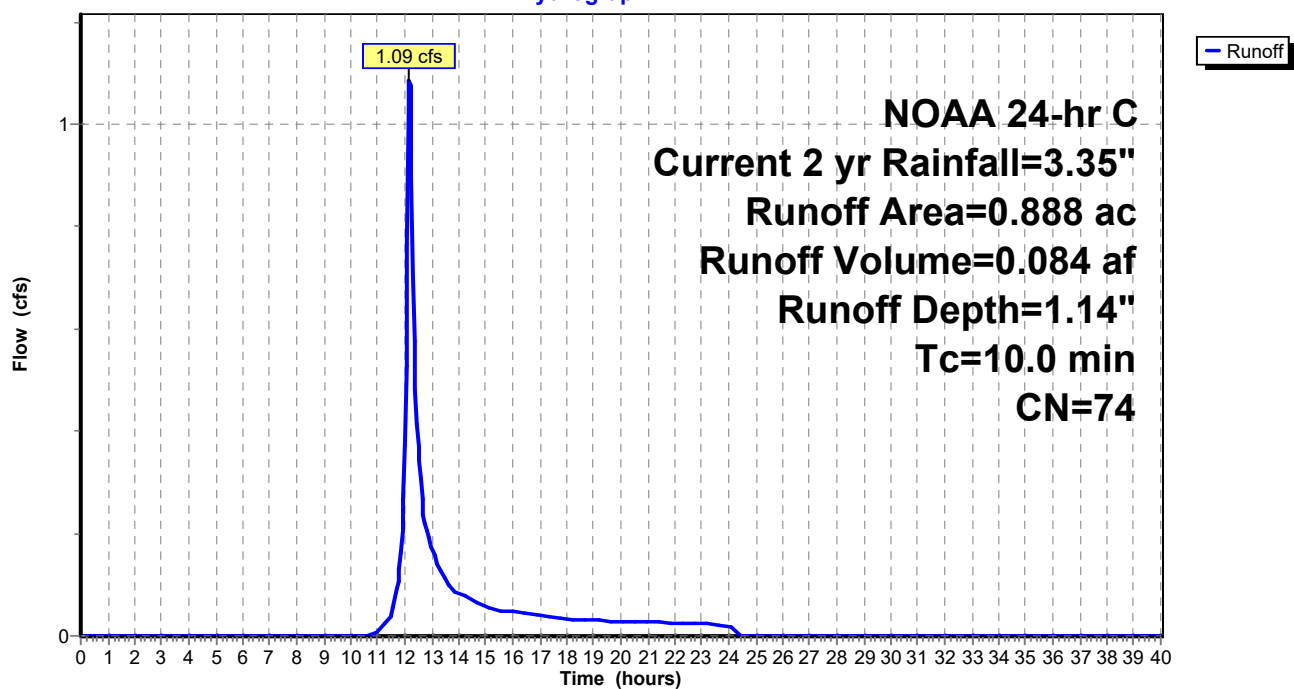
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

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

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

Subcatchment 1P: PDA-1 (pervious)

Hydrograph



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

Runoff = 2.19 cfs @ 12.17 hrs, Volume= 0.188 af, Depth= 3.12"
 Routed to Pond B-2 : Basin #2

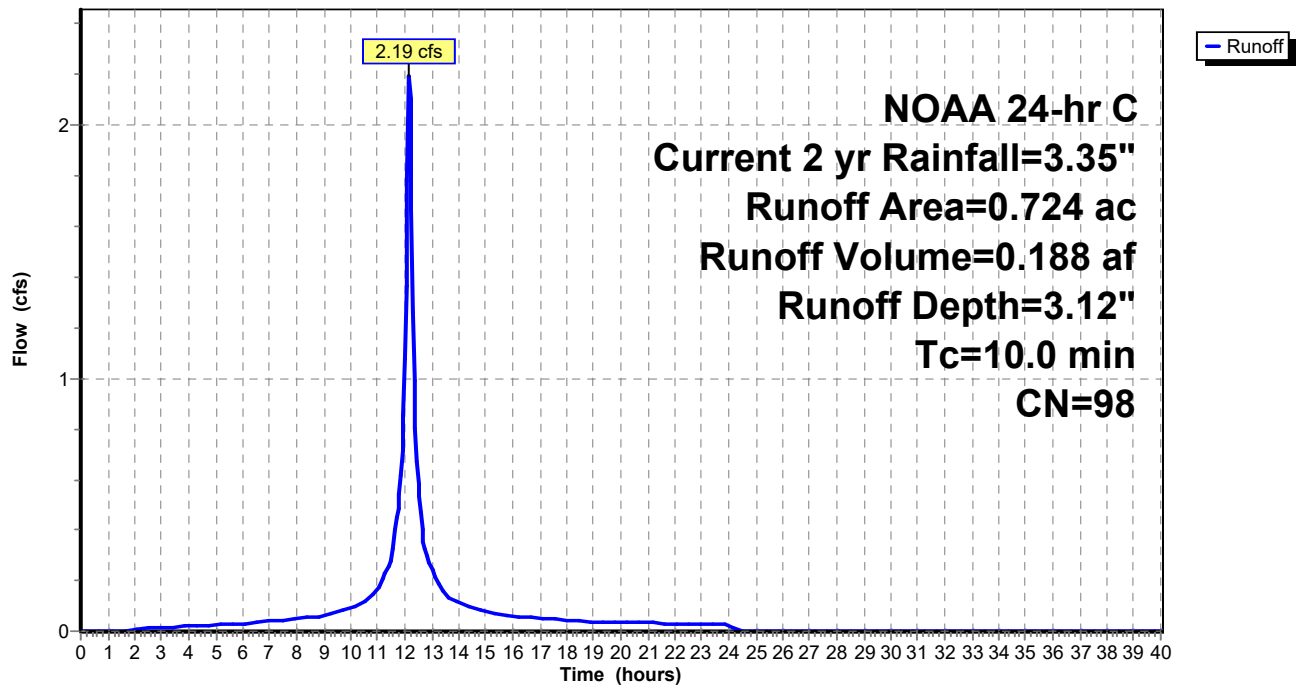
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

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

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

Subcatchment 2I: PDA-2 (impervious)

Hydrograph



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

Runoff = 1.43 cfs @ 12.18 hrs, Volume= 0.111 af, Depth= 1.14"
 Routed to Pond B-2 : Basin #2

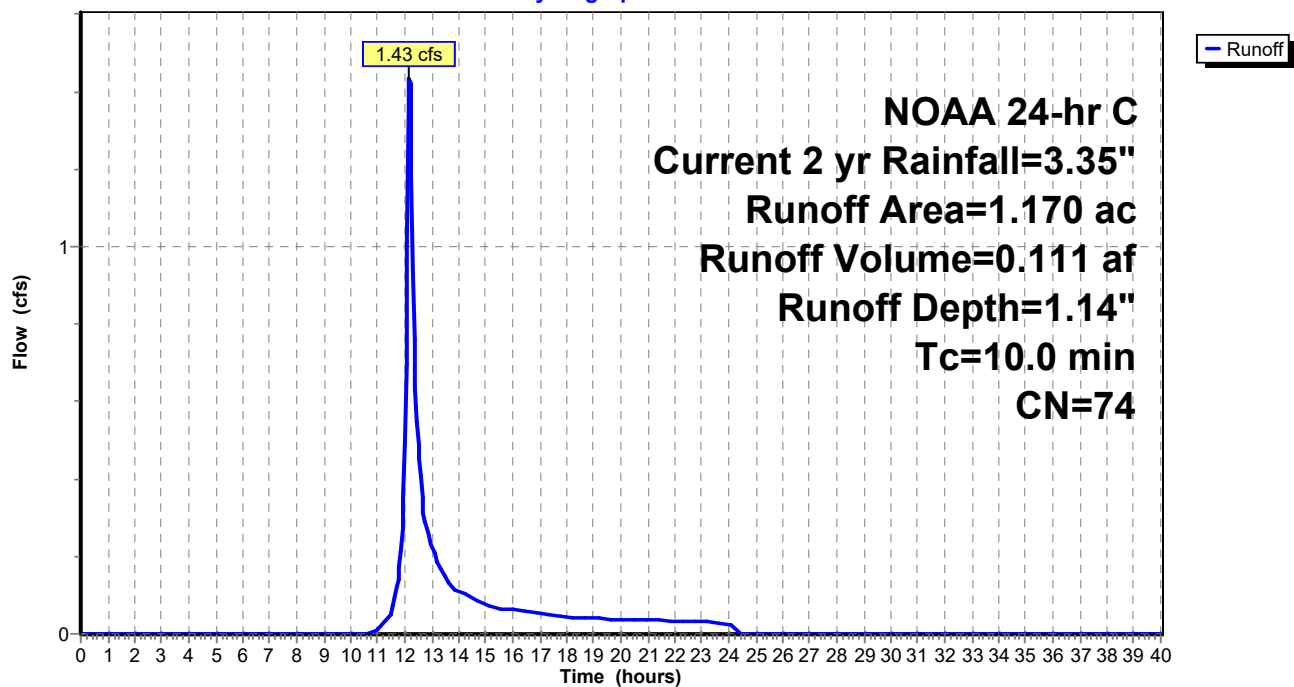
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

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

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

Subcatchment 2P: PDA-2 (pervious)

Hydrograph



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

Runoff = 1.81 cfs @ 12.17 hrs, Volume= 0.155 af, Depth= 3.12"
 Routed to Pond B-3 : Basin #3

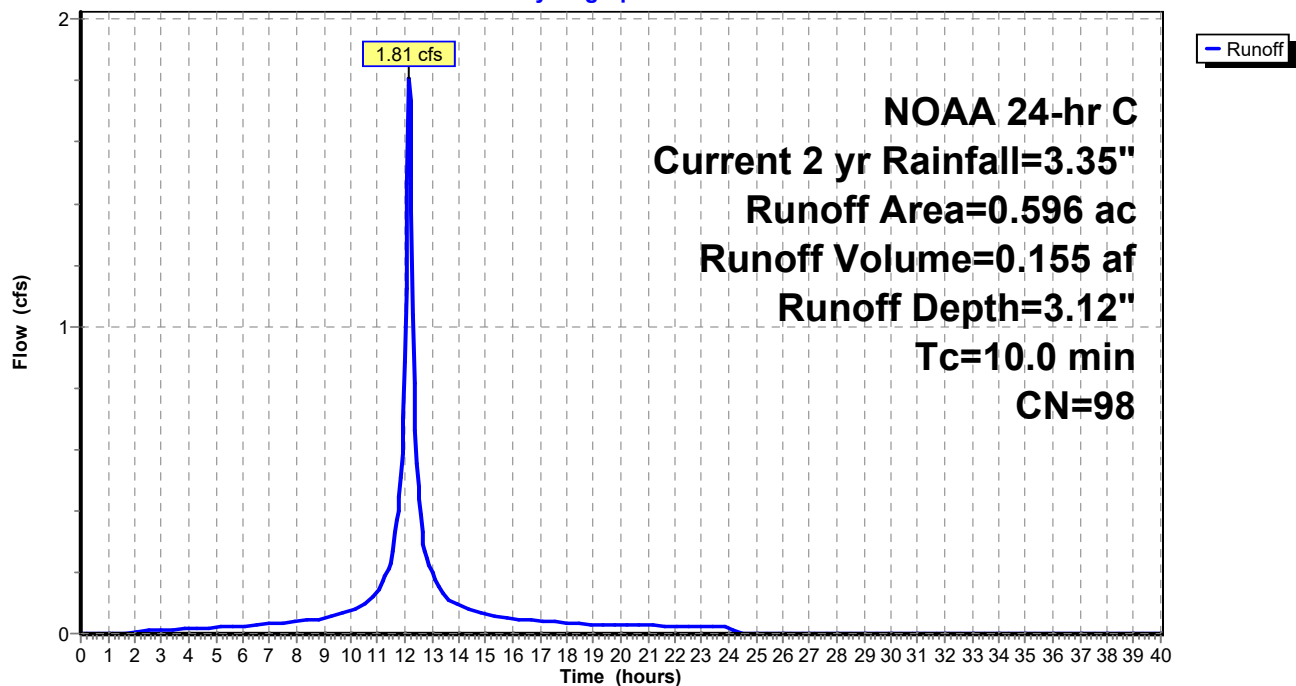
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

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

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

Subcatchment 3I: PDA-3 (impervious)

Hydrograph



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

Runoff = 1.17 cfs @ 12.18 hrs, Volume= 0.091 af, Depth= 1.14"
 Routed to Pond B-3 : Basin #3

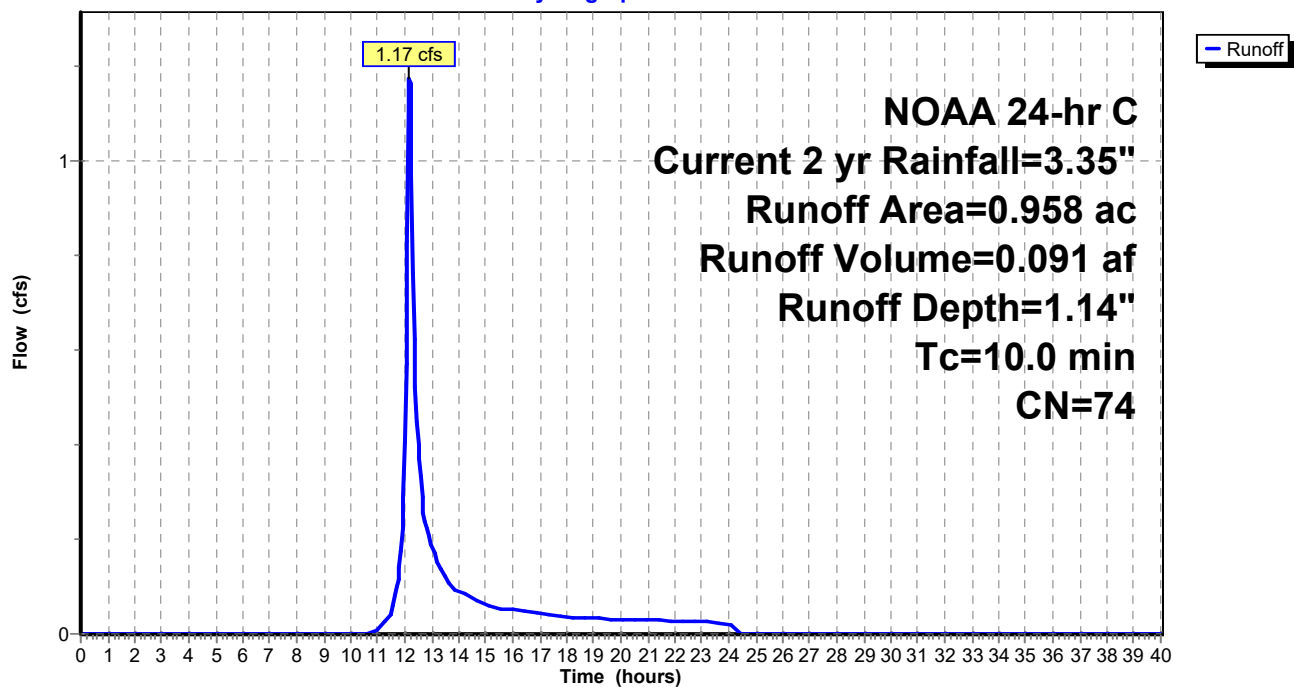
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

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

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

Subcatchment 3P: PDA-3 (pervious)

Hydrograph



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

Runoff = 2.61 cfs @ 12.17 hrs, Volume= 0.223 af, Depth= 3.12"
 Routed to Pond B-4A : Basin #4A

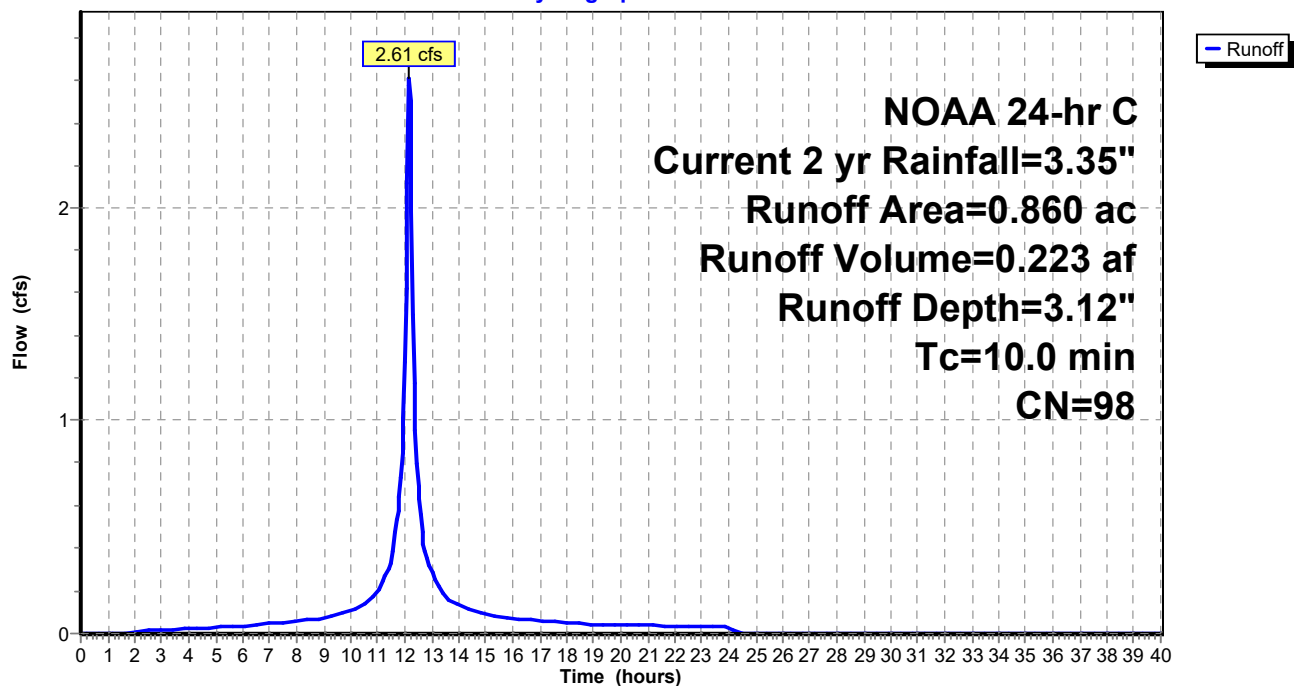
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

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

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

Subcatchment 4AI: PDA-4A (impervious)

Hydrograph



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

Runoff = 1.80 cfs @ 12.18 hrs, Volume= 0.139 af, Depth= 1.14"
 Routed to Pond B-4A : Basin #4A

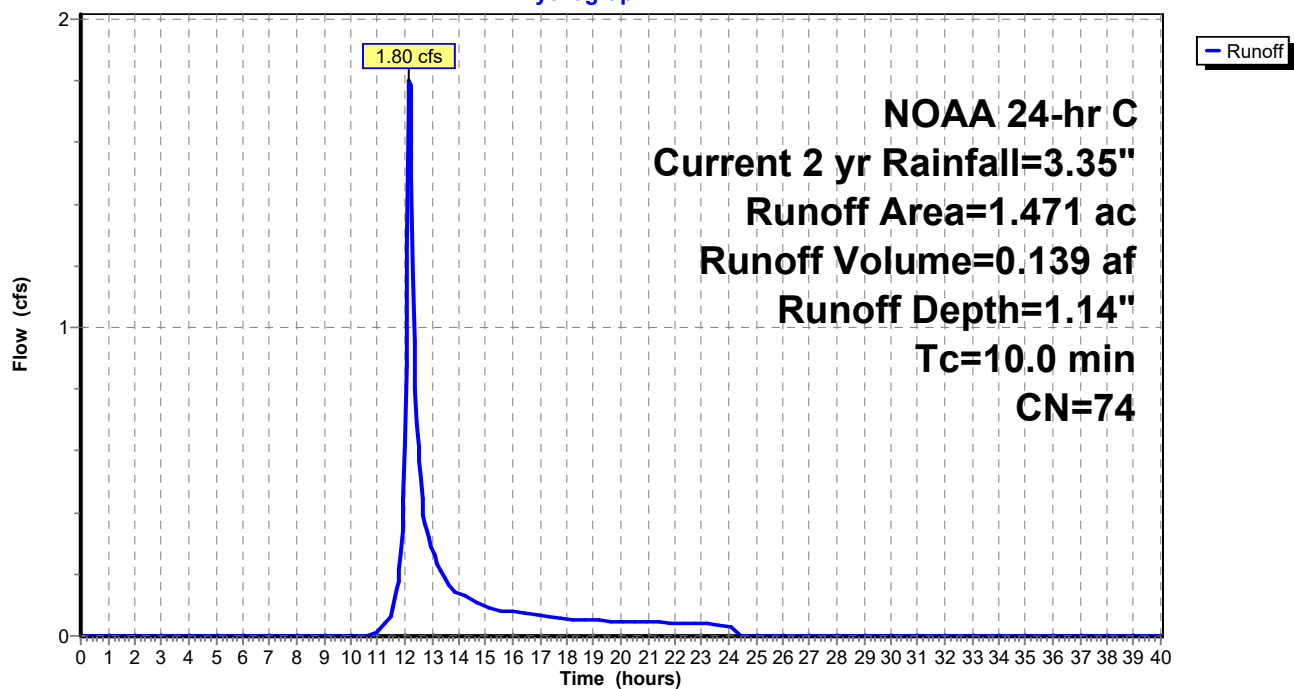
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

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

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

Subcatchment 4AP: PDA-4A (pervious)

Hydrograph



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

Runoff = 2.61 cfs @ 12.17 hrs, Volume= 0.223 af, Depth= 3.12"
Routed to Pond B-4B : Basin #4B

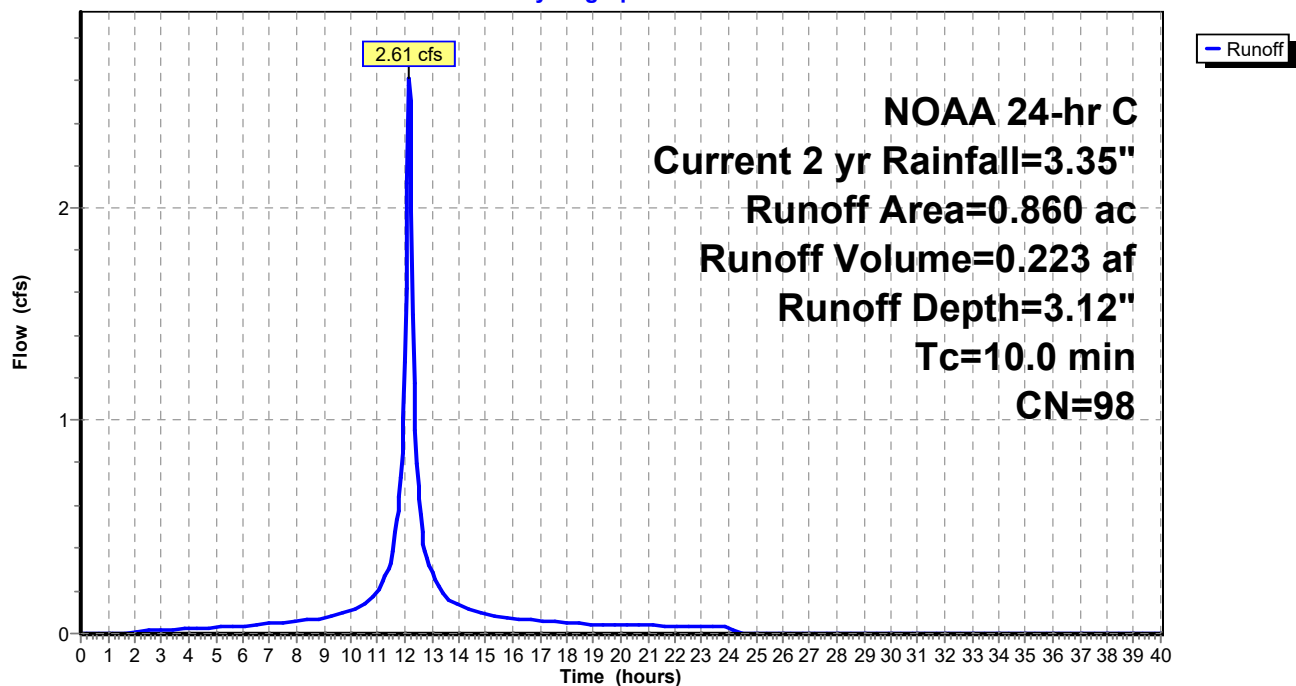
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 2 yr Rainfall=3.35"

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

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

Subcatchment 4BI: PDA-4B (impervious)

Hydrograph



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

Runoff = 1.80 cfs @ 12.18 hrs, Volume= 0.139 af, Depth= 1.14"
 Routed to Pond B-4B : Basin #4B

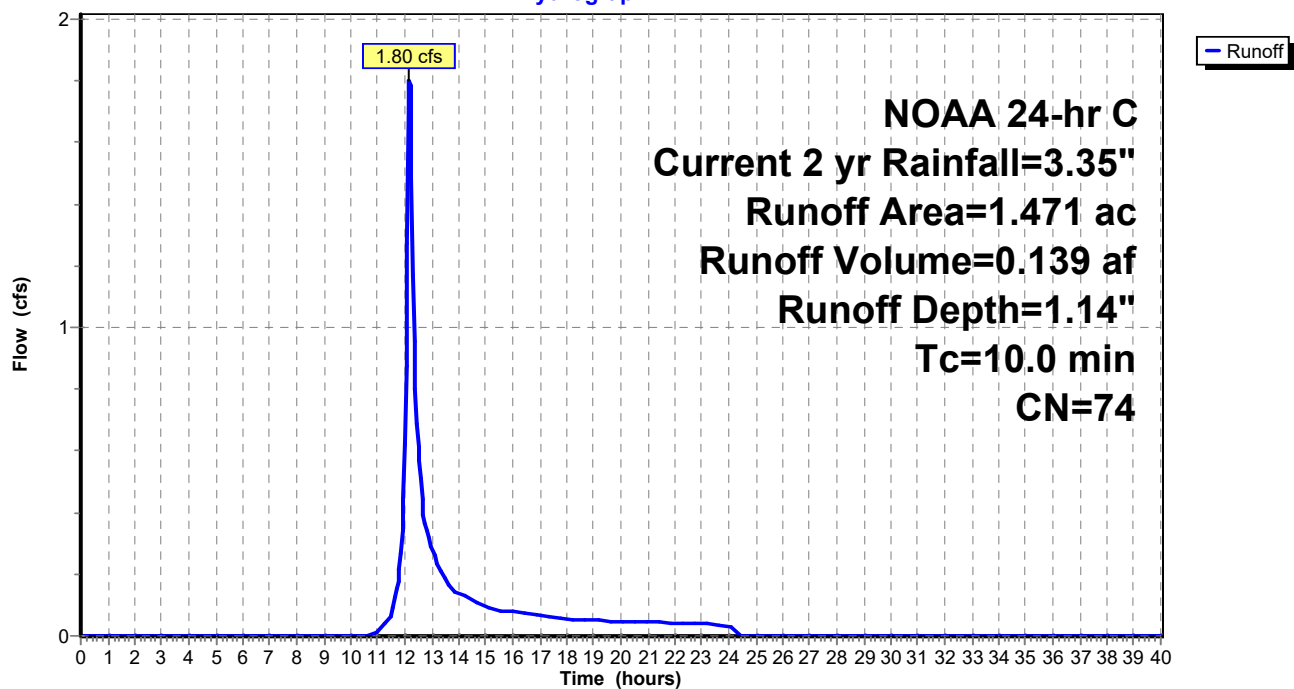
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

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

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

Subcatchment 4BP: PDA-4B (pervious)

Hydrograph



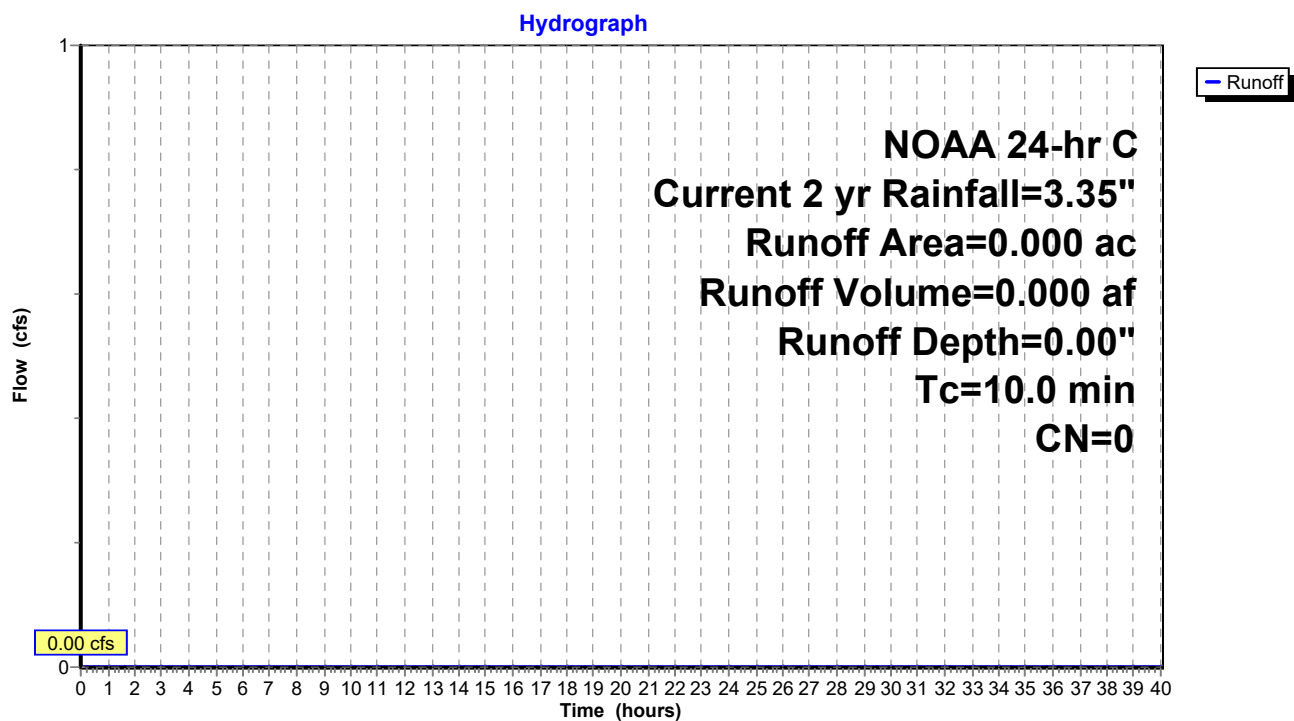
Summary for Subcatchment 5I: PDA-5 (impervious)

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

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

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

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

Subcatchment 5I: PDA-5 (impervious)

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

Runoff = 0.83 cfs @ 12.18 hrs, Volume= 0.064 af, Depth= 1.14"
 Routed to Pond B-5 : Basin #5

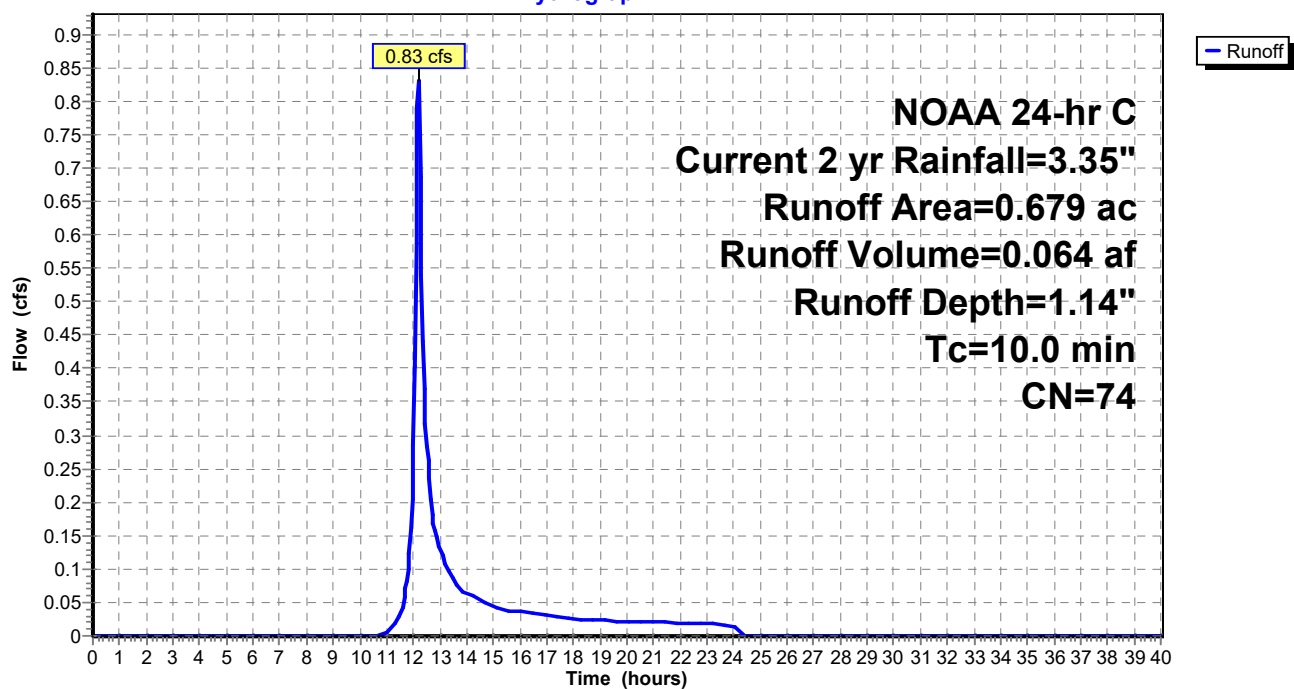
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

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

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

Subcatchment 5P: PDA-5 (pervious)

Hydrograph



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

Runoff = 2.10 cfs @ 12.17 hrs, Volume= 0.180 af, Depth= 3.12"
 Routed to Pond B-6 : Basin #6

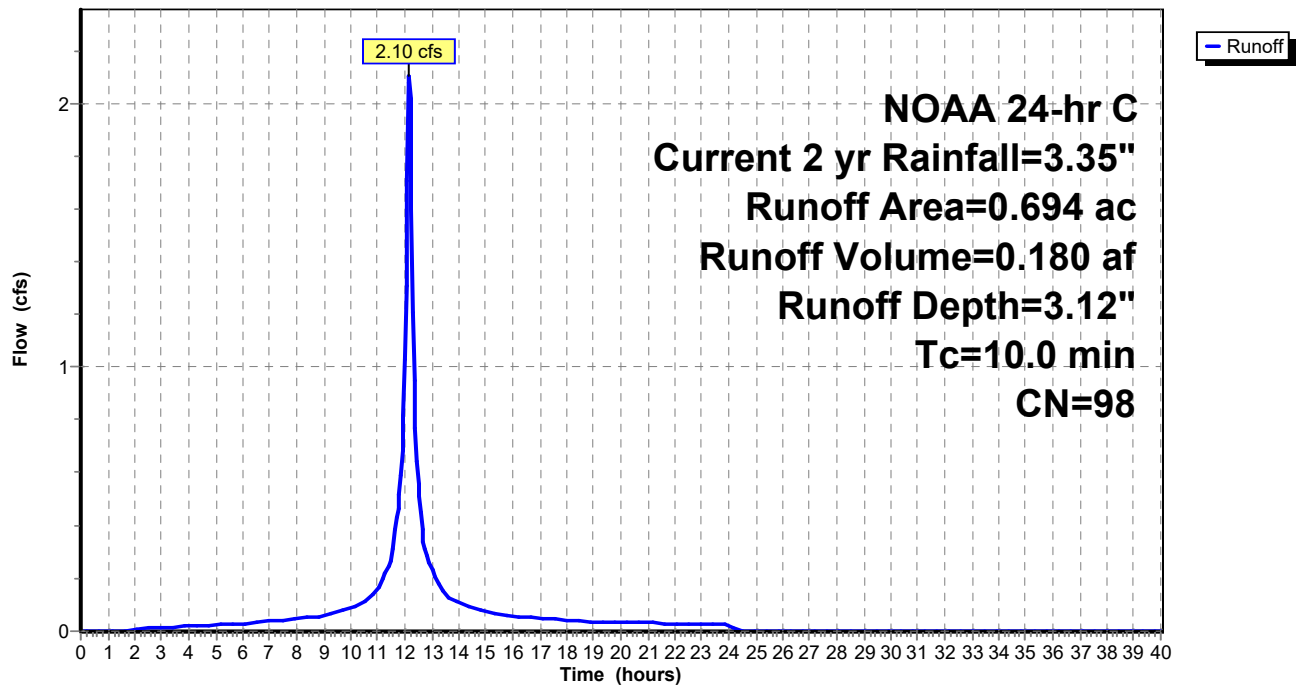
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

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

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

Subcatchment 6I: PDA-6 (impervious)

Hydrograph



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

Runoff = 0.61 cfs @ 12.18 hrs, Volume= 0.047 af, Depth= 1.14"
 Routed to Pond B-6 : Basin #6

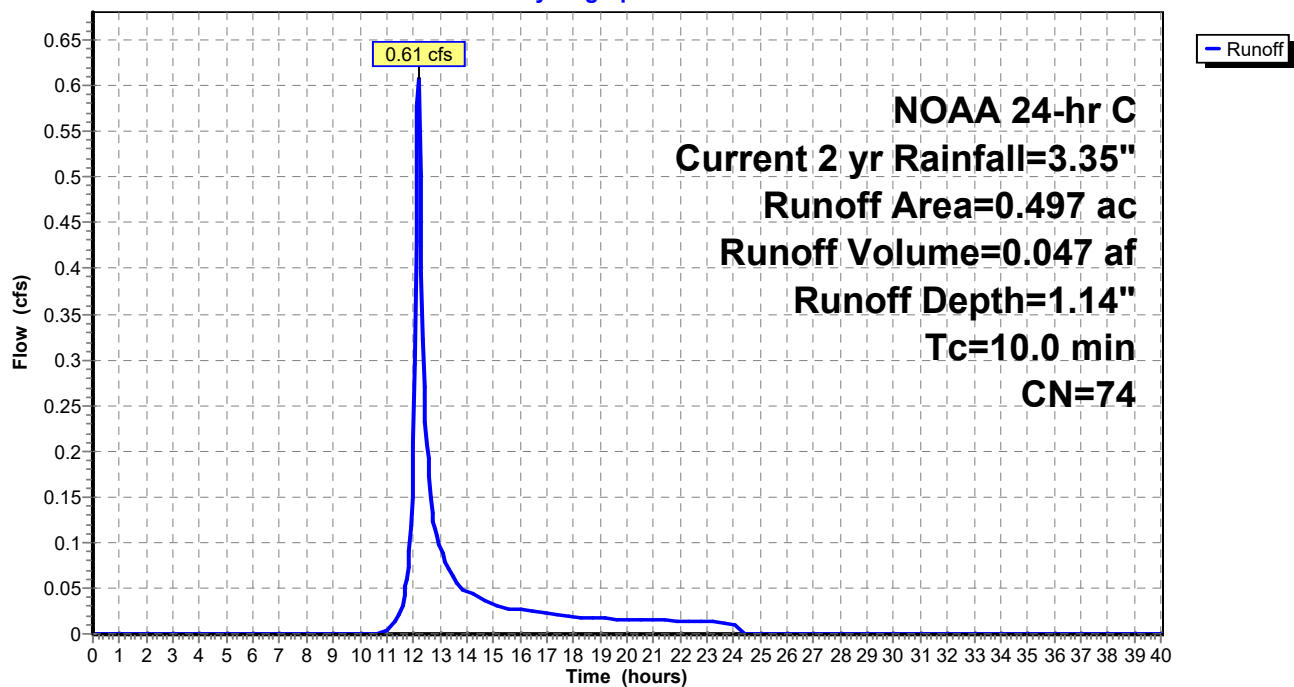
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

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

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

Subcatchment 6P: PDA-6 (pervious)

Hydrograph



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

Runoff = 2.98 cfs @ 12.17 hrs, Volume= 0.255 af, Depth= 3.12"
 Routed to Pond B-7 : Basin #7

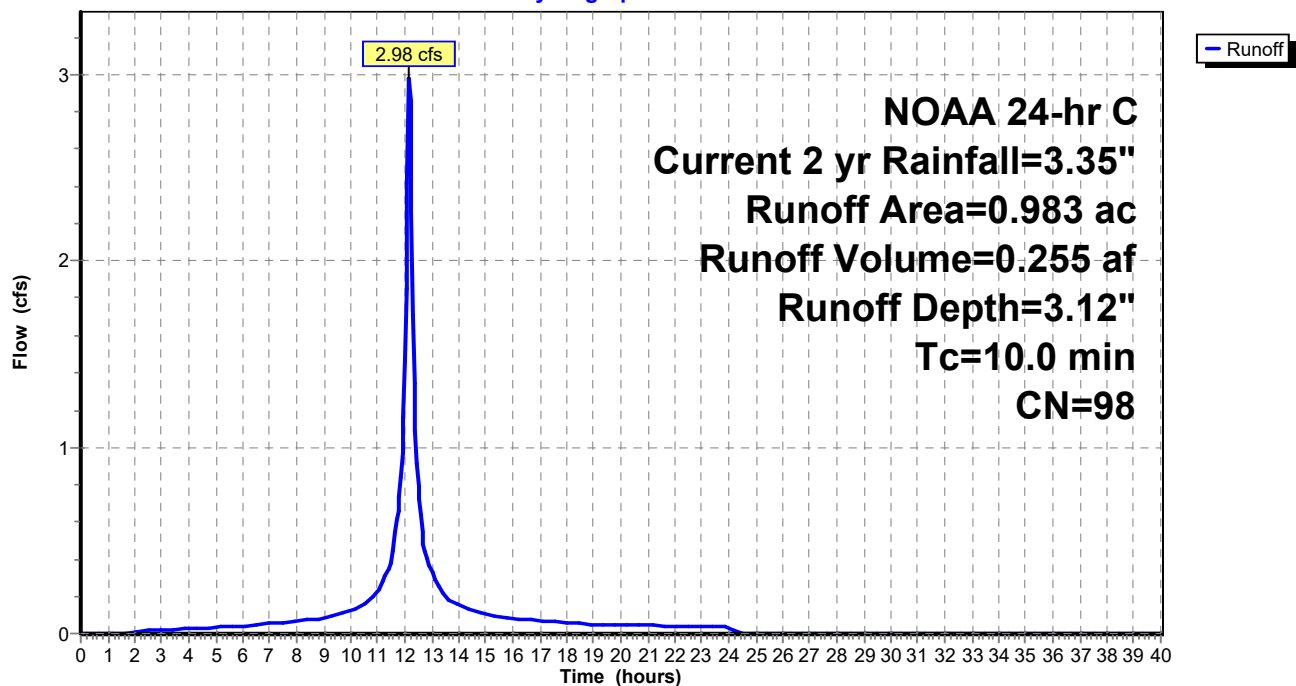
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

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

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

Subcatchment 7I: PDA-7 (impervious)

Hydrograph



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

Runoff = 0.71 cfs @ 12.18 hrs, Volume= 0.055 af, Depth= 1.14"
 Routed to Pond B-7 : Basin #7

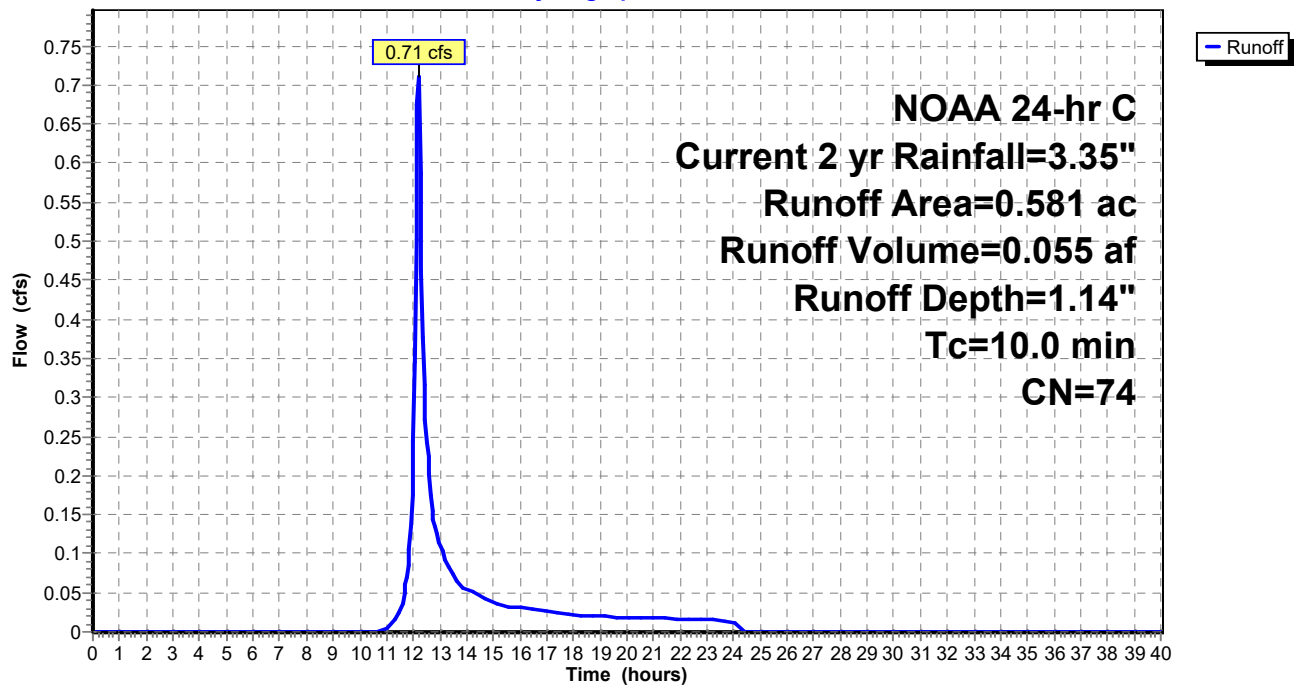
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

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

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

Subcatchment 7P: PDA-7 (pervious)

Hydrograph



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

Runoff = 1.46 cfs @ 12.17 hrs, Volume= 0.125 af, Depth= 3.12"
 Routed to Pond B-8 : Basin #8

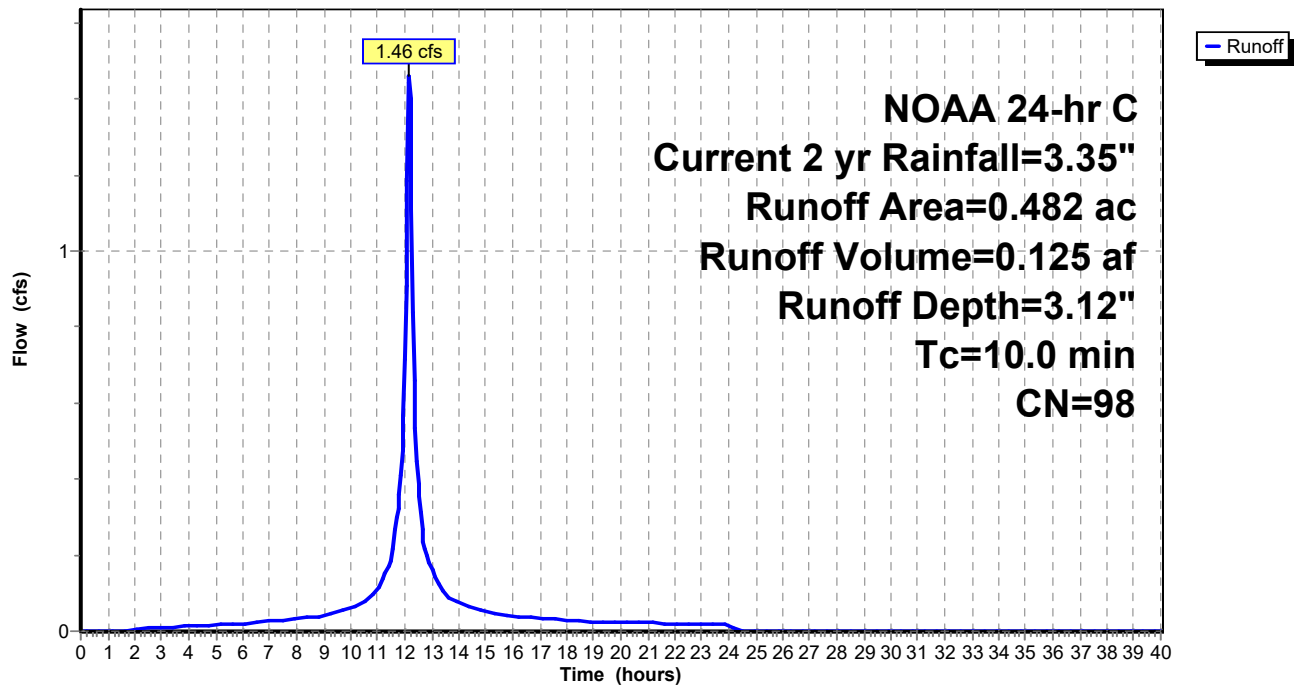
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

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

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

Subcatchment 8I: PDA-8 (impervious)

Hydrograph



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

Runoff = 1.97 cfs @ 12.18 hrs, Volume= 0.152 af, Depth= 1.14"
 Routed to Pond B-8 : Basin #8

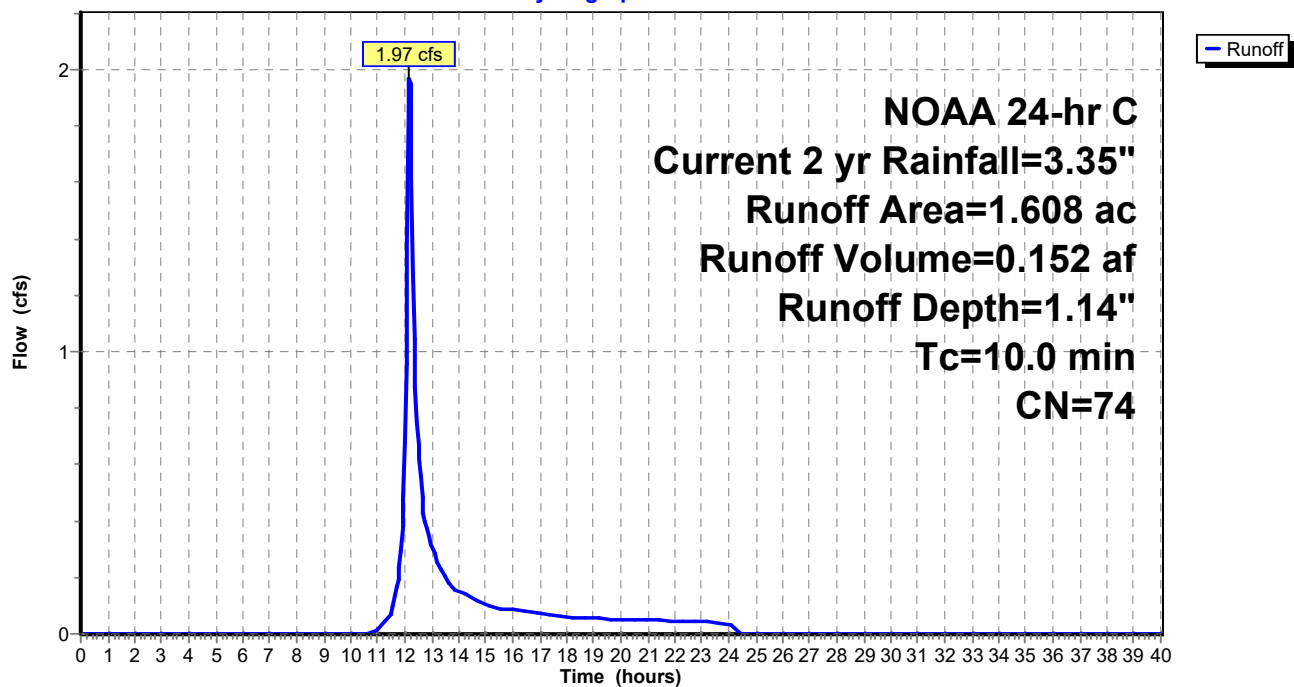
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

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

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

Subcatchment 8P: PDA-8 (pervious)

Hydrograph



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

Runoff = 2.40 cfs @ 12.17 hrs, Volume= 0.205 af, Depth= 3.12"
 Routed to Pond B-9 : Basin #9

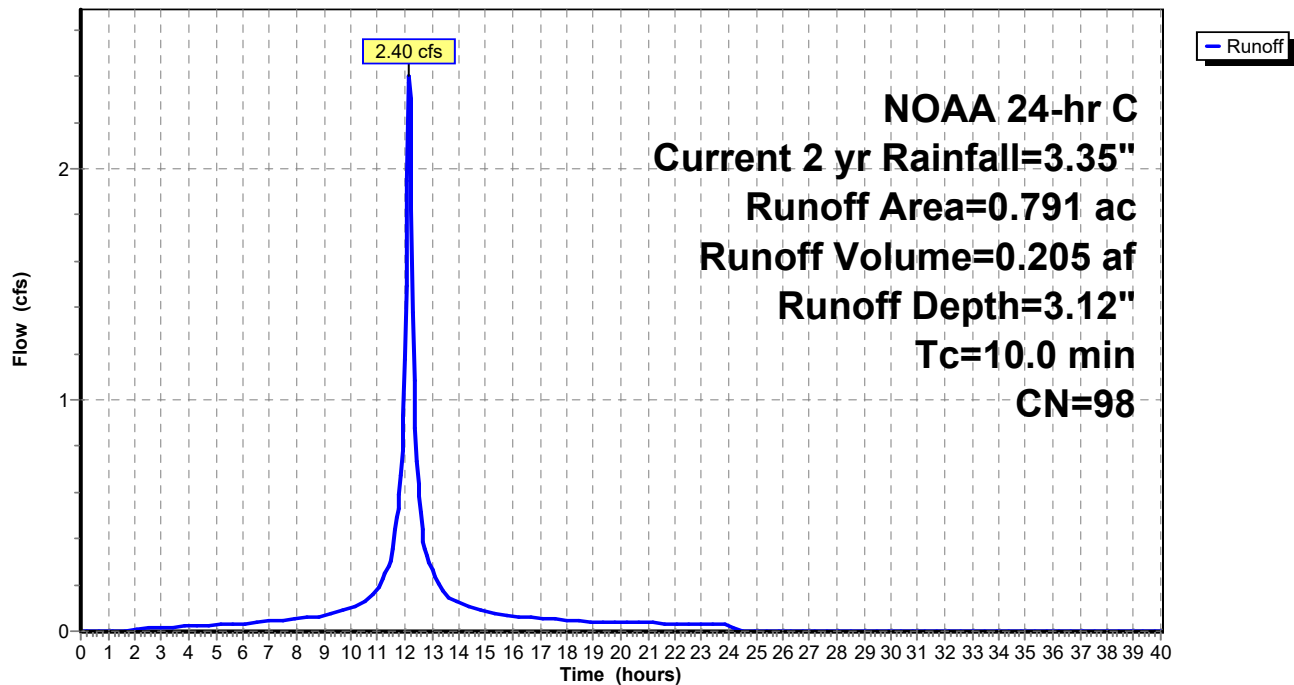
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

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

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

Subcatchment 9I: PDA-9 (impervious)

Hydrograph



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

Runoff = 0.87 cfs @ 12.18 hrs, Volume= 0.067 af, Depth= 1.14"
 Routed to Pond B-9 : Basin #9

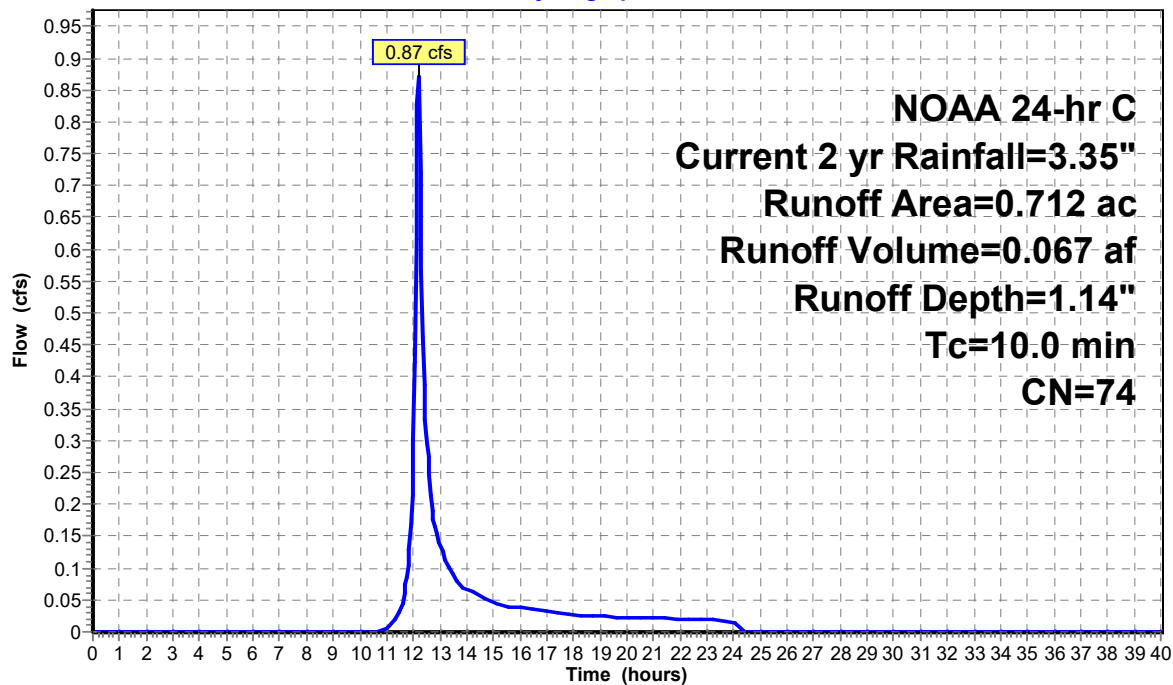
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

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

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

Subcatchment 9P: PDA-9 (pervious)

Hydrograph



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

Runoff = 2.87 cfs @ 12.17 hrs, Volume= 0.246 af, Depth= 3.12"
 Routed to Pond B-10 : Basin #10

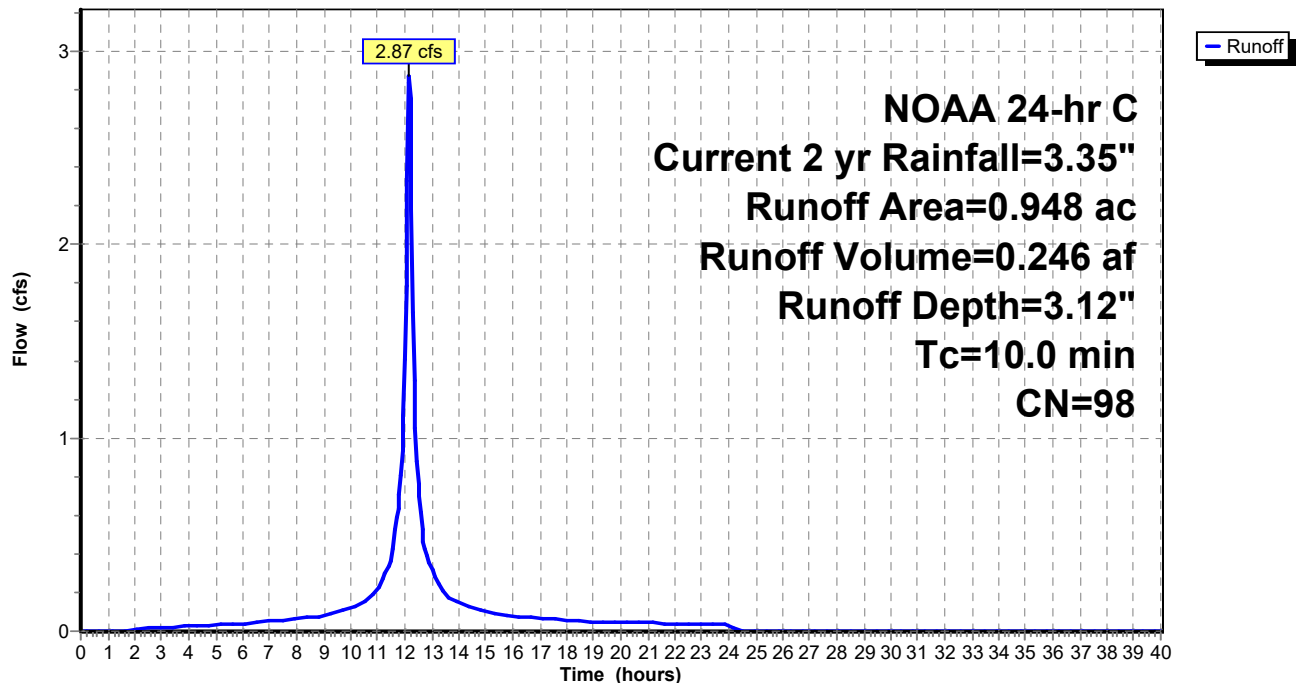
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

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

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

Subcatchment 10I: PDA-10 (impervious)

Hydrograph



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

Runoff = 0.89 cfs @ 12.18 hrs, Volume= 0.069 af, Depth= 1.14"
 Routed to Pond B-10 : Basin #10

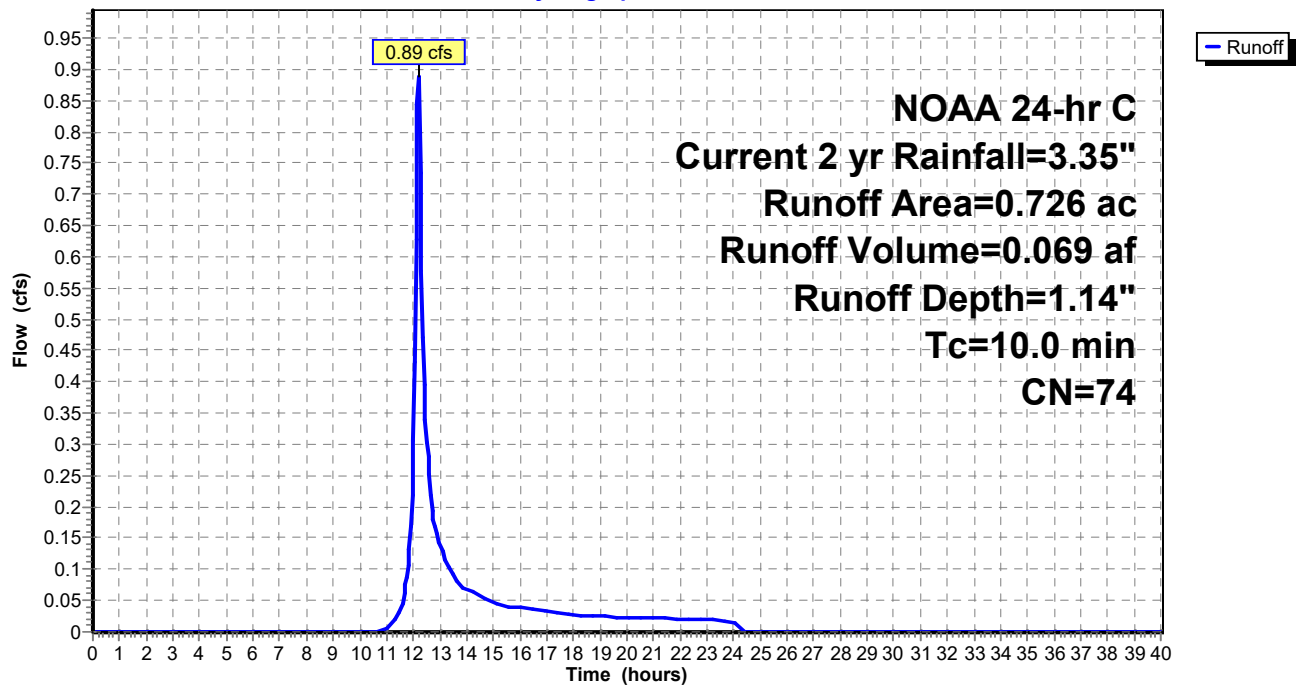
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

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

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

Subcatchment 10P: PDA-10 (pervious)

Hydrograph



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

Runoff = 3.95 cfs @ 12.17 hrs, Volume= 0.339 af, Depth= 3.12"
 Routed to Pond B-11 : Basin #11

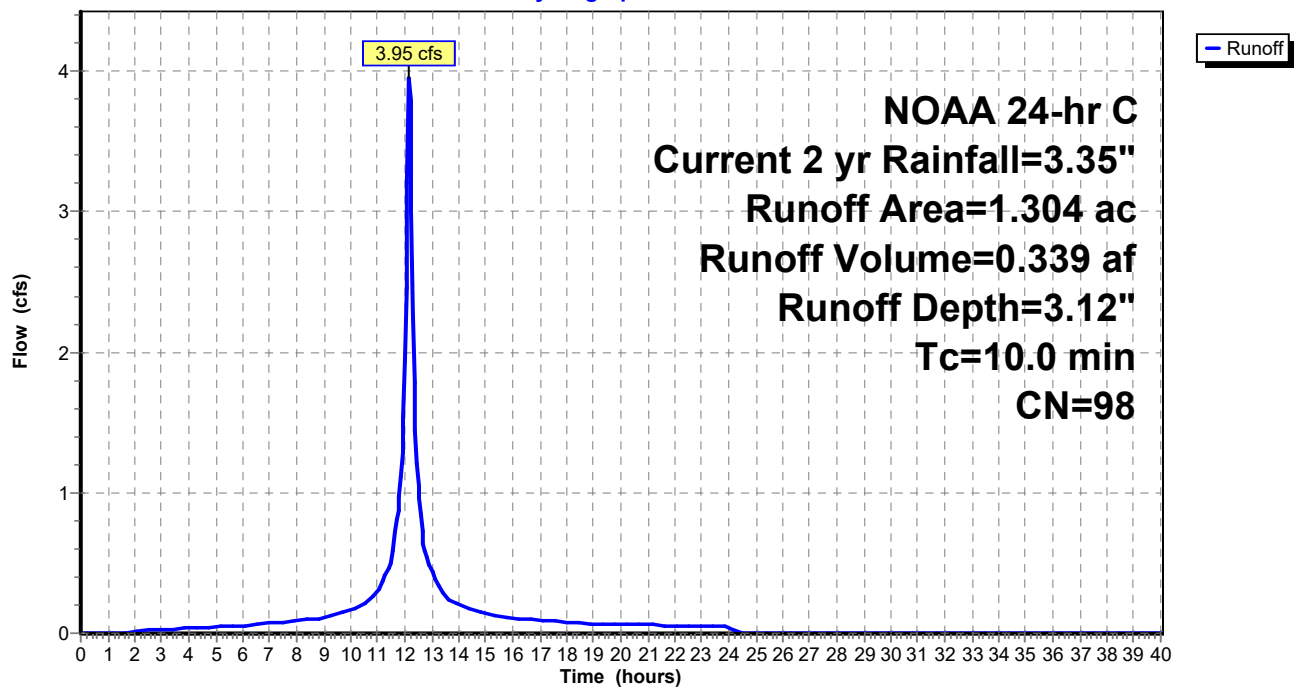
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

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

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

Subcatchment 11I: PDA-11 (impervious)

Hydrograph



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

Runoff = 1.13 cfs @ 12.18 hrs, Volume= 0.088 af, Depth= 1.14"
 Routed to Pond B-11 : Basin #11

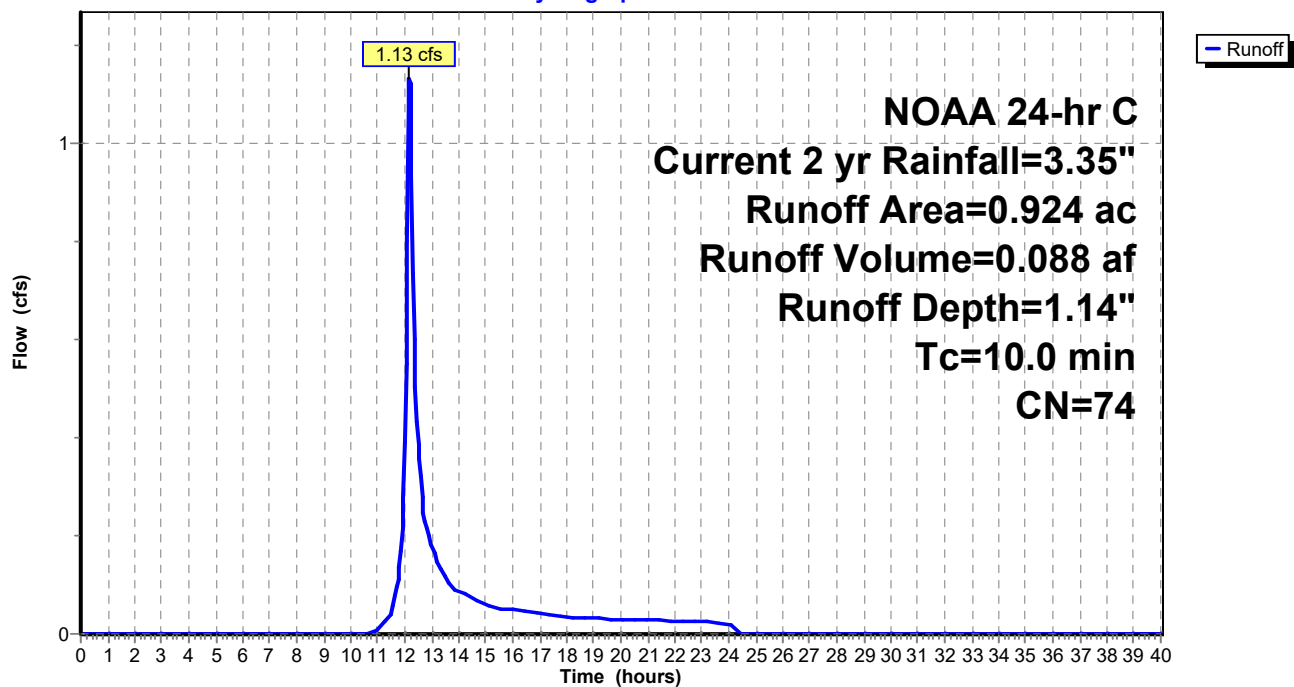
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

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

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

Subcatchment 11P: PDA-11 (pervious)

Hydrograph



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

Runoff = 3.29 cfs @ 12.17 hrs, Volume= 0.282 af, Depth= 3.12"
Routed to Pond B-12 : Basin #12

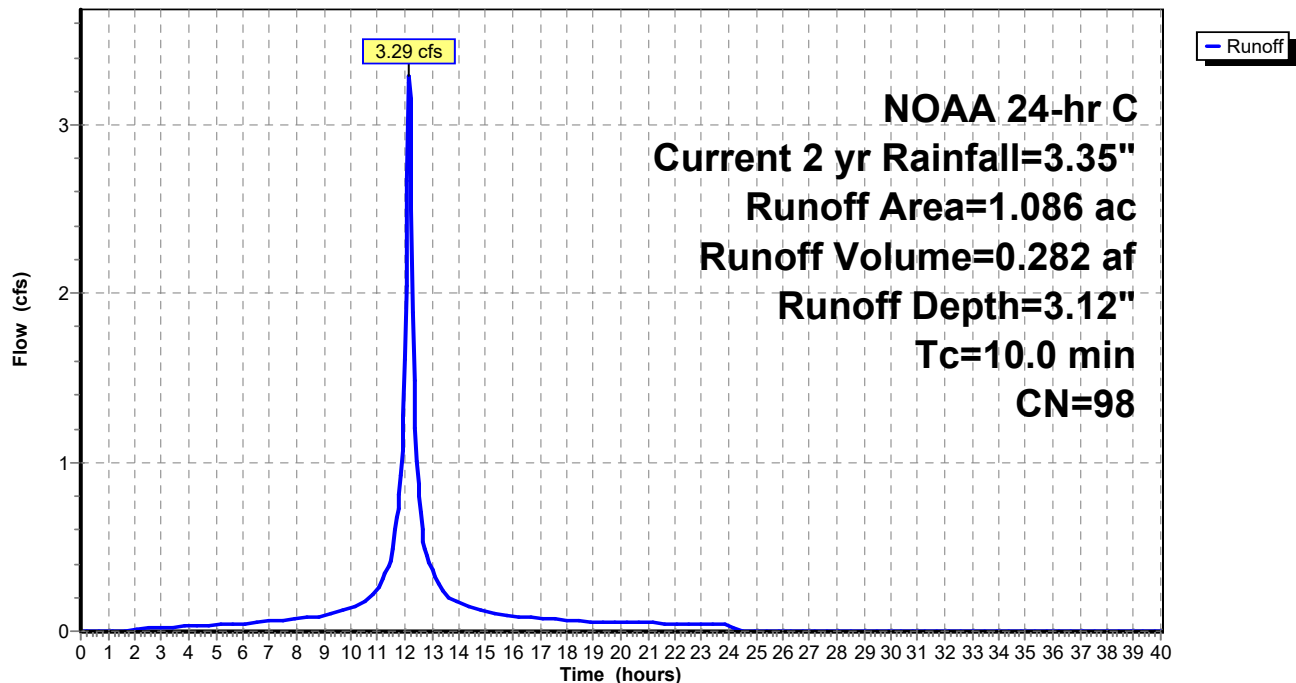
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 2 yr Rainfall=3.35"

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

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

Subcatchment 12I: PDA-12 (impervious)

Hydrograph



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

Runoff = 1.64 cfs @ 12.18 hrs, Volume= 0.127 af, Depth= 1.14"
 Routed to Pond B-12 : Basin #12

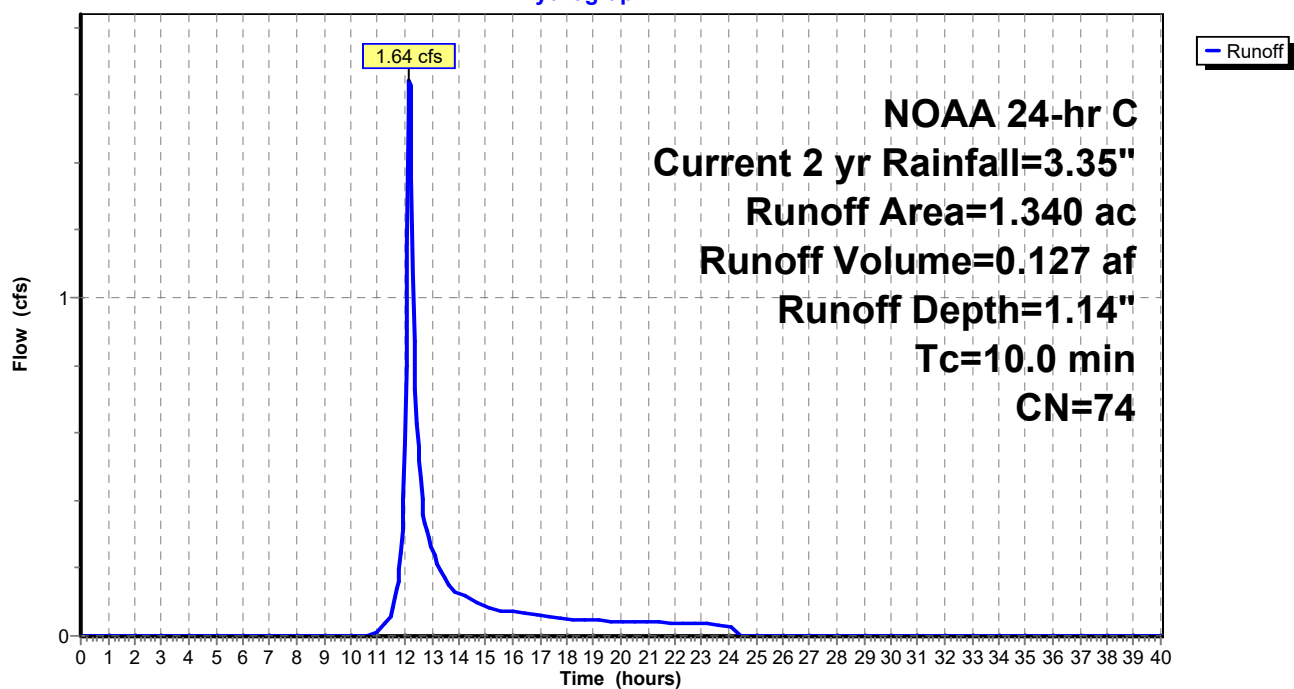
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

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

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

Subcatchment 12P: PDA-12 (pervious)

Hydrograph



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

Runoff = 4.45 cfs @ 12.17 hrs, Volume= 0.381 af, Depth= 3.12"
 Routed to Pond B-13 : Basin #13

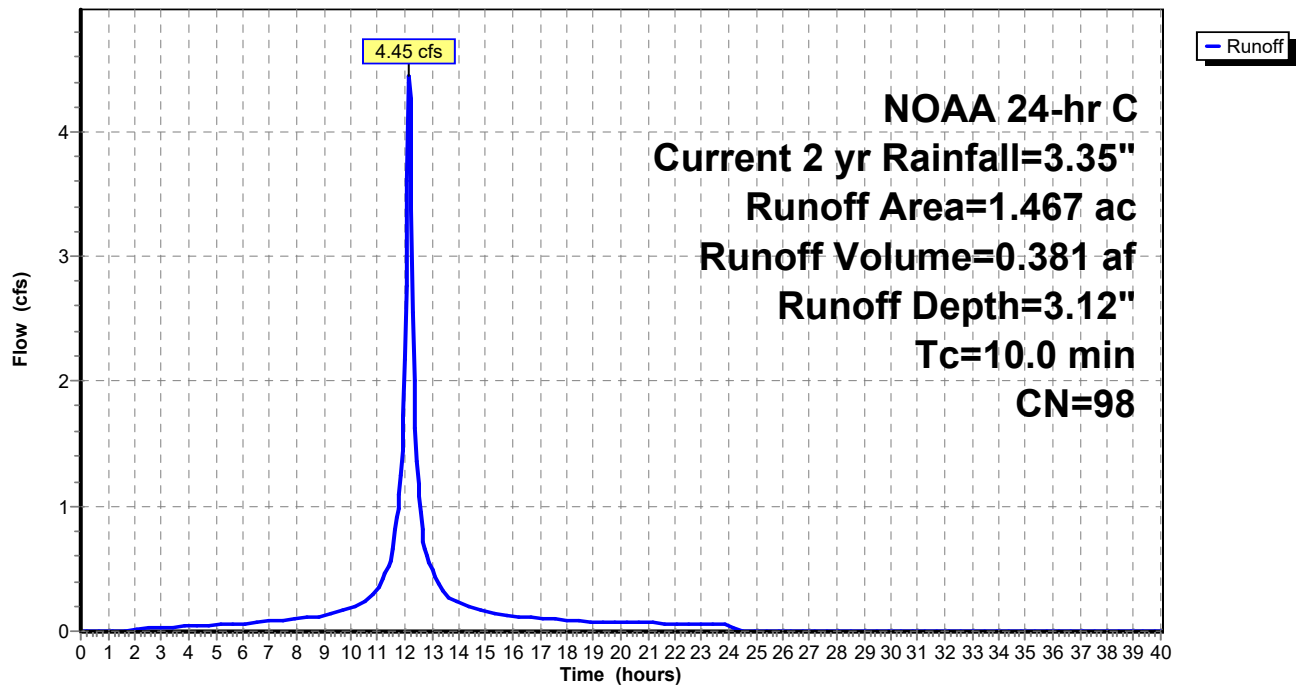
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

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

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

Subcatchment 13I: PDA-13 (impervious)

Hydrograph



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

Runoff = 1.08 cfs @ 12.18 hrs, Volume= 0.084 af, Depth= 1.14"
 Routed to Pond B-13 : Basin #13

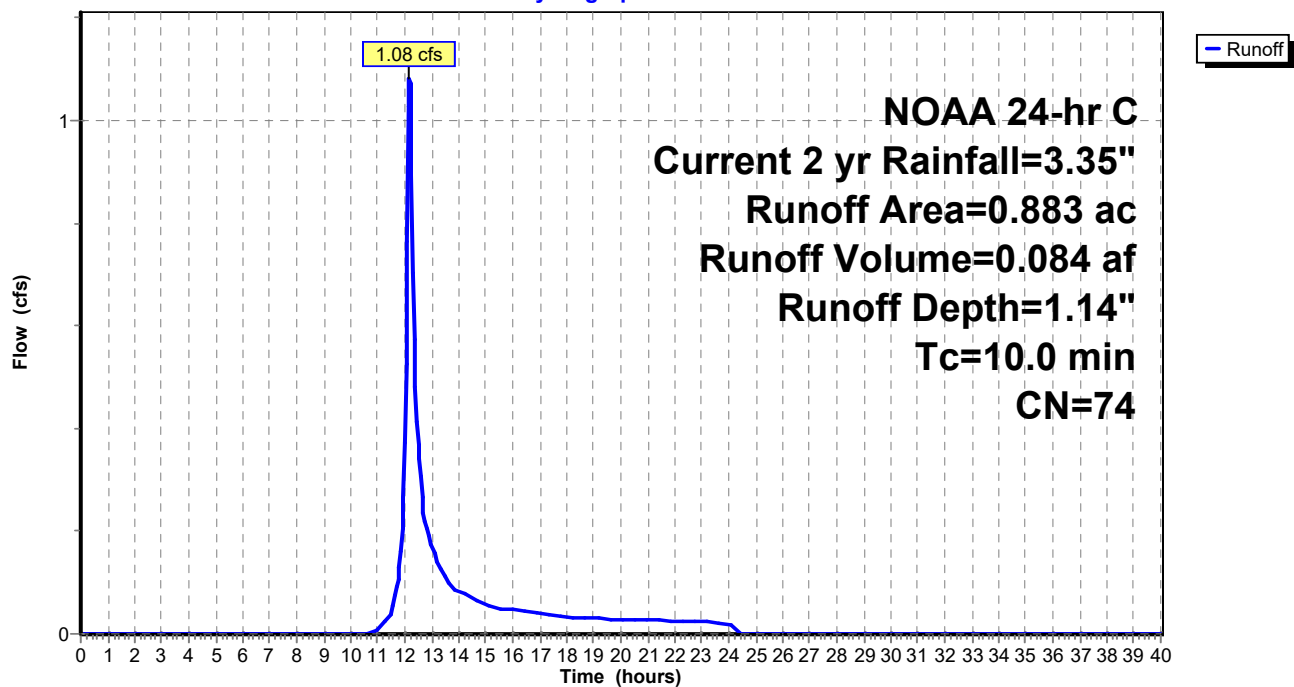
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

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

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

Subcatchment 13P: PDA-13 (pervious)

Hydrograph



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

Runoff = 1.54 cfs @ 12.17 hrs, Volume= 0.132 af, Depth= 3.12"
 Routed to Pond B-14 : Basin #14

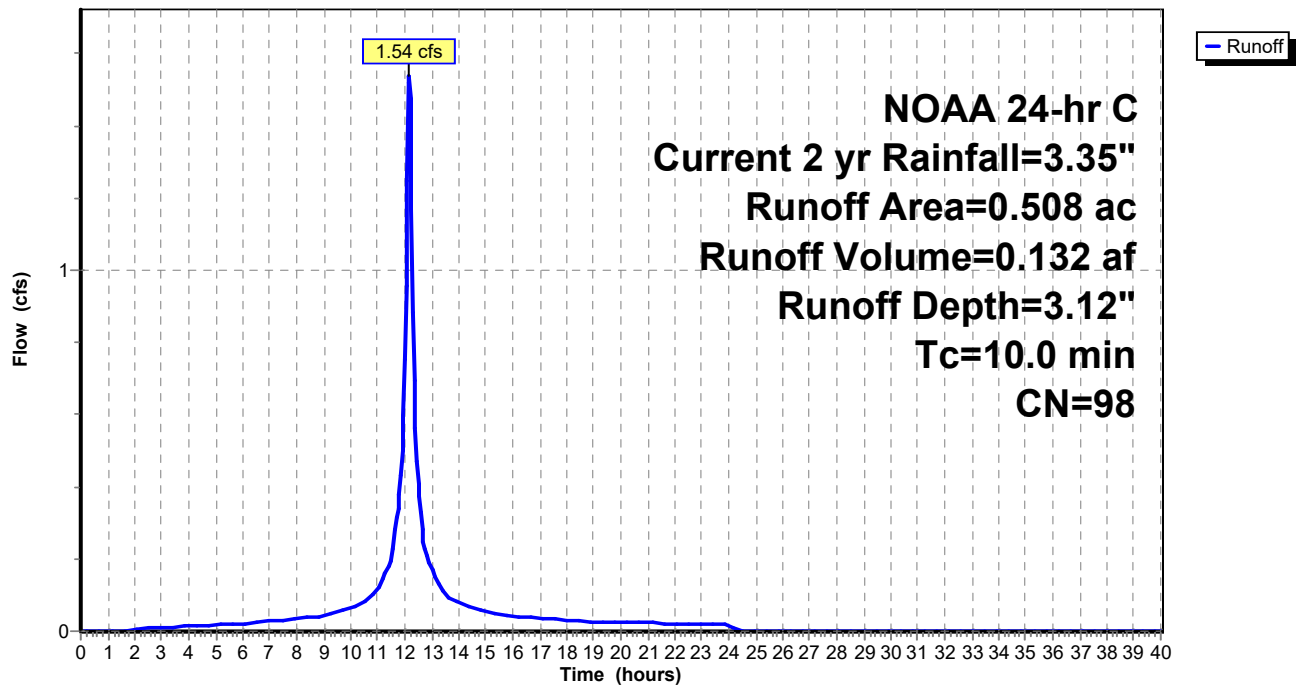
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

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

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

Subcatchment 14I: PDA-14 (impervious)

Hydrograph



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

Runoff = 2.01 cfs @ 12.18 hrs, Volume= 0.155 af, Depth= 1.14"
 Routed to Pond B-14 : Basin #14

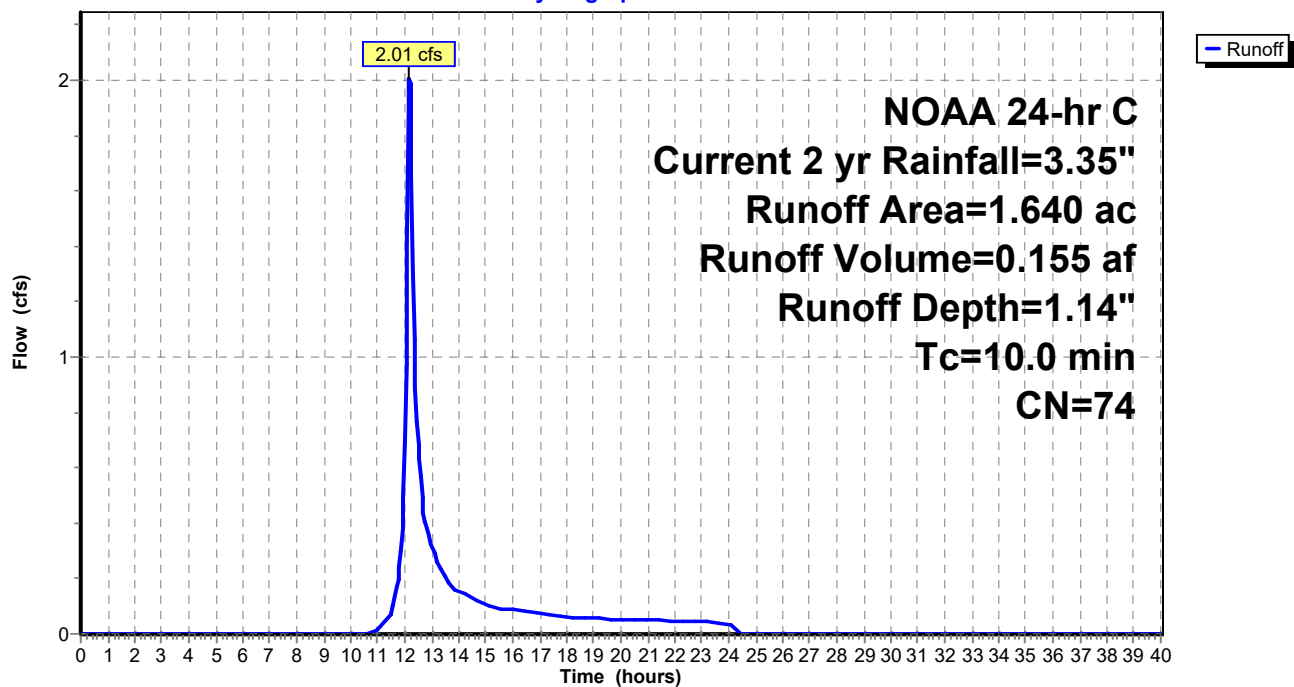
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

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

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

Subcatchment 14P: PDA-14 (pervious)

Hydrograph



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

Runoff = 4.21 cfs @ 12.17 hrs, Volume= 0.361 af, Depth= 3.12"
 Routed to Pond B-15 : Basin #15

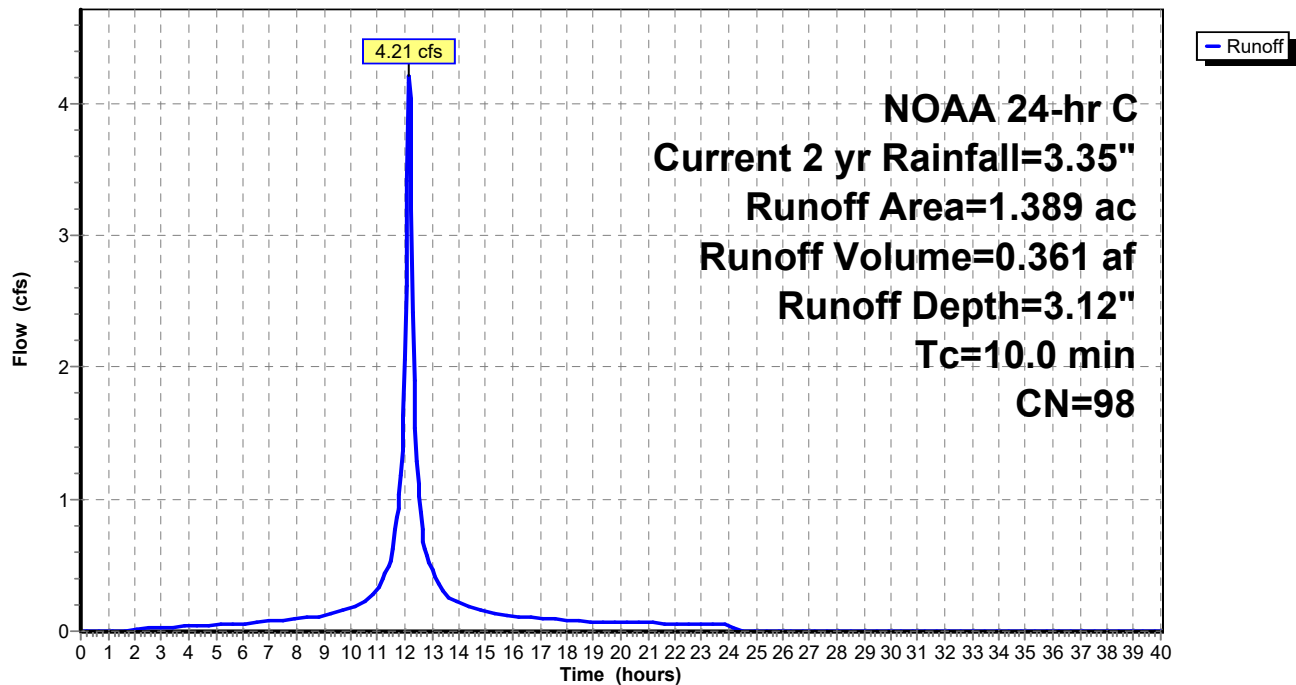
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

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

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

Subcatchment 15I: PDA-15 (impervious)

Hydrograph



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

Runoff = 1.19 cfs @ 12.18 hrs, Volume= 0.093 af, Depth= 1.14"
 Routed to Pond B-15 : Basin #15

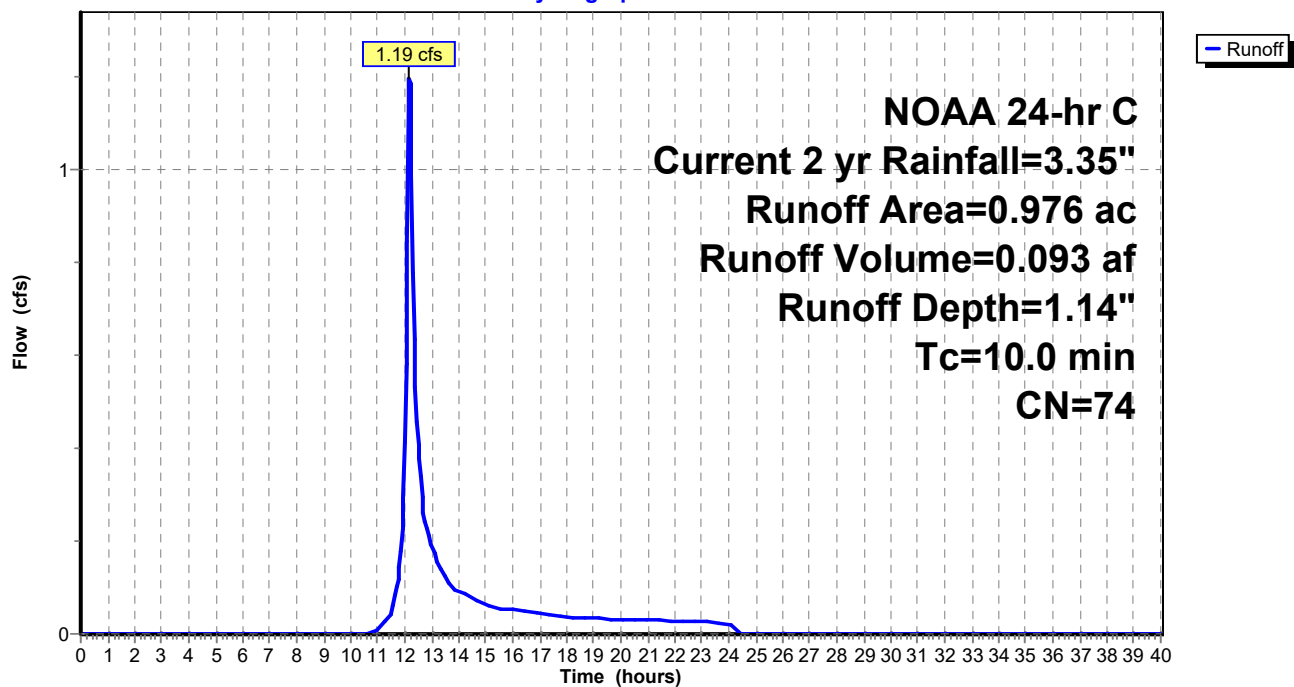
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

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

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

Subcatchment 15P: PDA-15 (pervious)

Hydrograph



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

Runoff = 2.59 cfs @ 12.17 hrs, Volume= 0.222 af, Depth= 3.12"
 Routed to Pond B-16A : Basin #16A

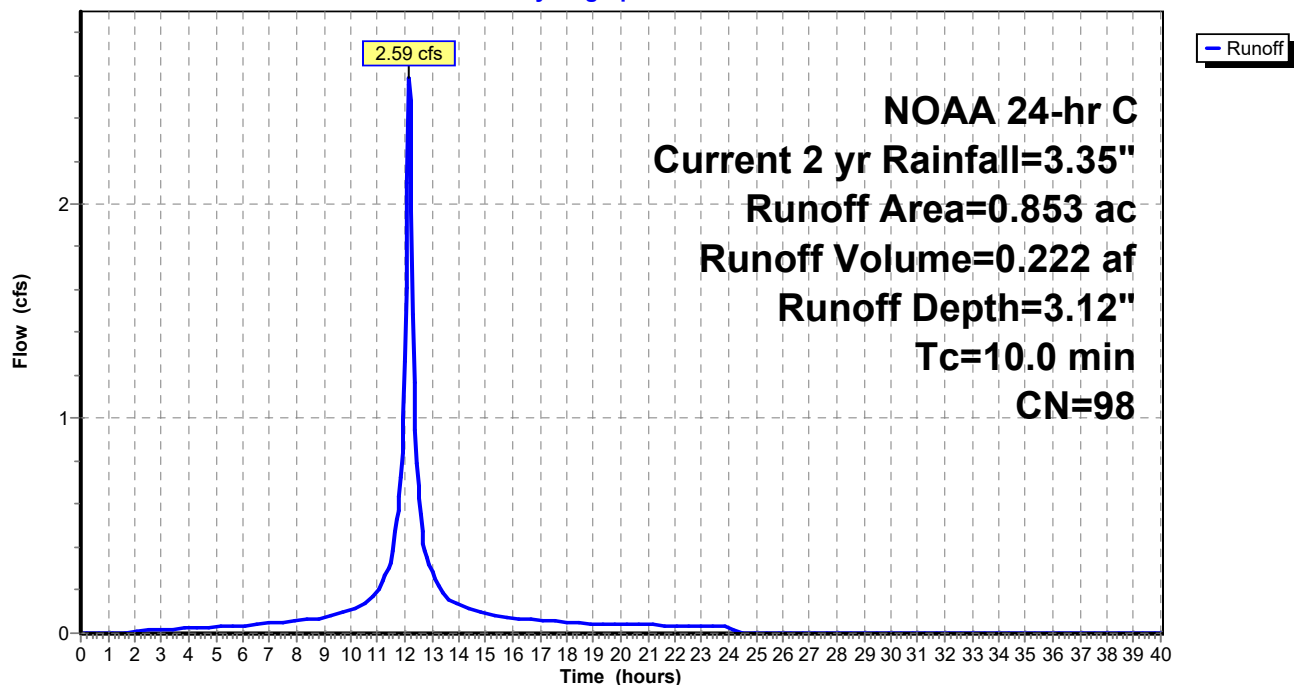
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

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

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

Subcatchment 16A1: PDA-16A (impervious)

Hydrograph



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

Runoff = 1.25 cfs @ 12.18 hrs, Volume= 0.097 af, Depth= 1.14"
 Routed to Pond B-16A : Basin #16A

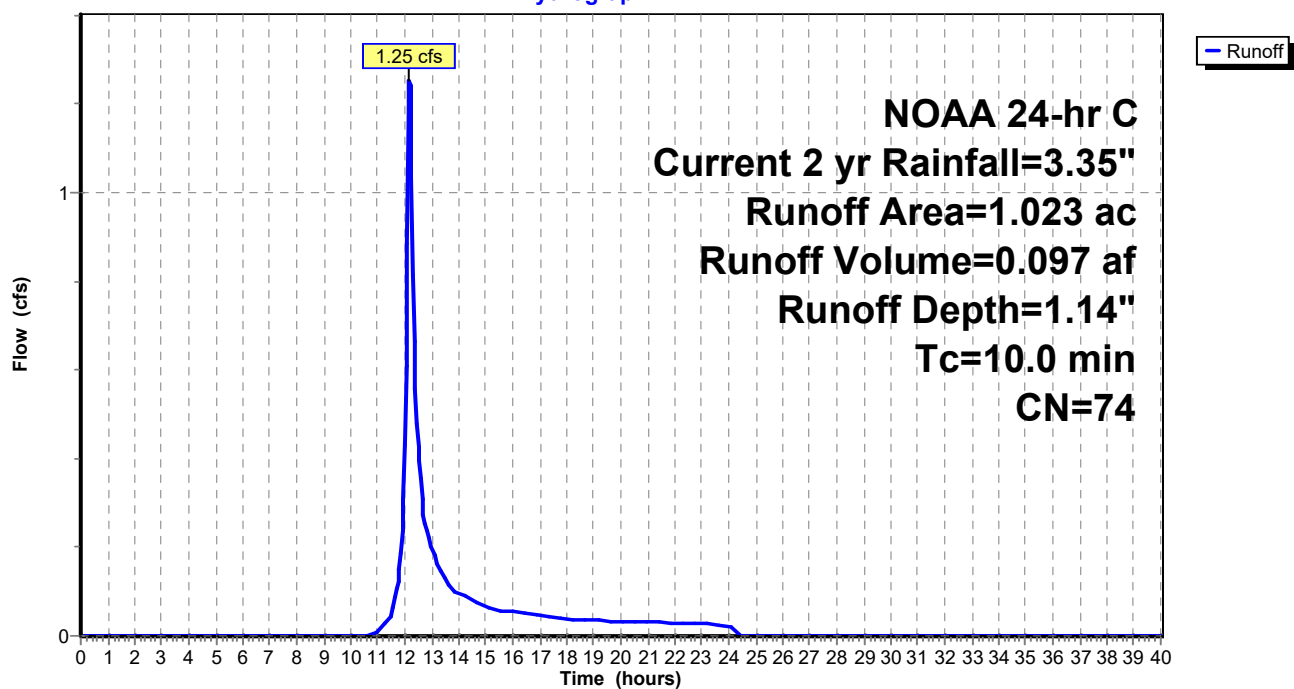
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

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

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

Subcatchment 16AP: PDA-16A (pervious)

Hydrograph



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

Runoff = 2.49 cfs @ 12.17 hrs, Volume= 0.213 af, Depth= 3.12"
 Routed to Pond B-16B : Basin #16B

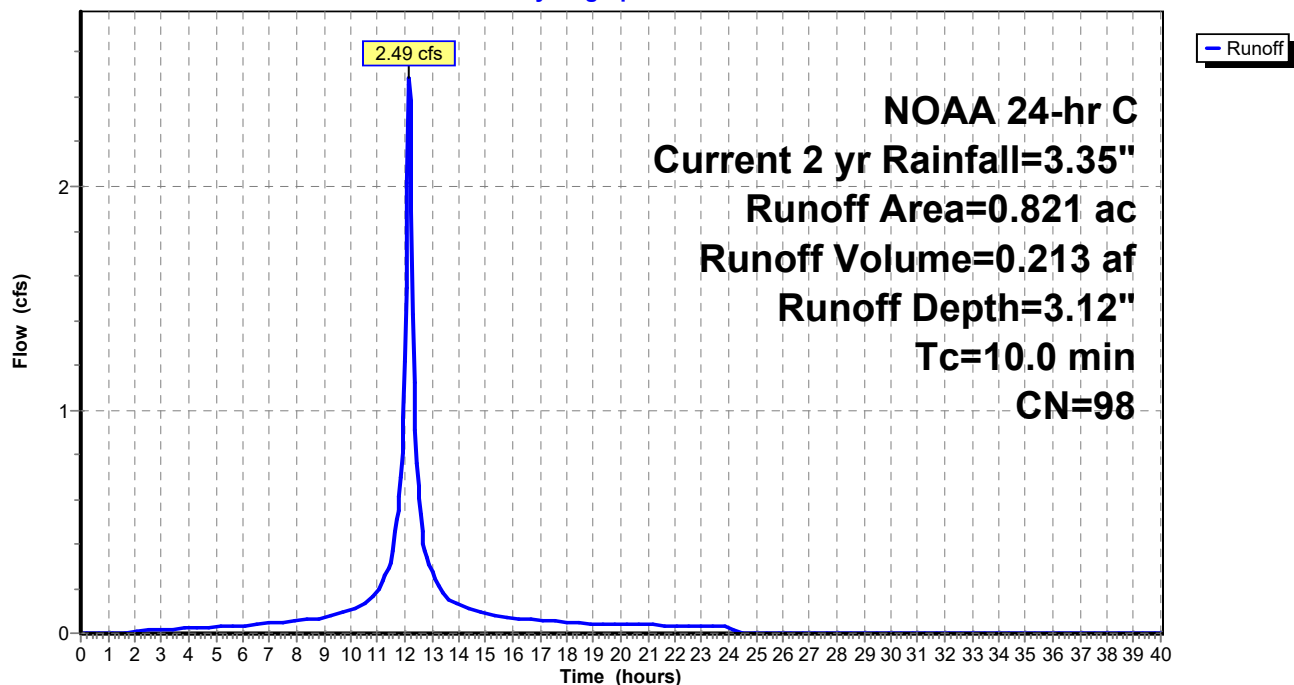
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

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

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

Subcatchment 16BI: PDA-16B (impervious)

Hydrograph



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

Runoff = 1.29 cfs @ 12.18 hrs, Volume= 0.100 af, Depth= 1.14"
 Routed to Pond B-16B : Basin #16B

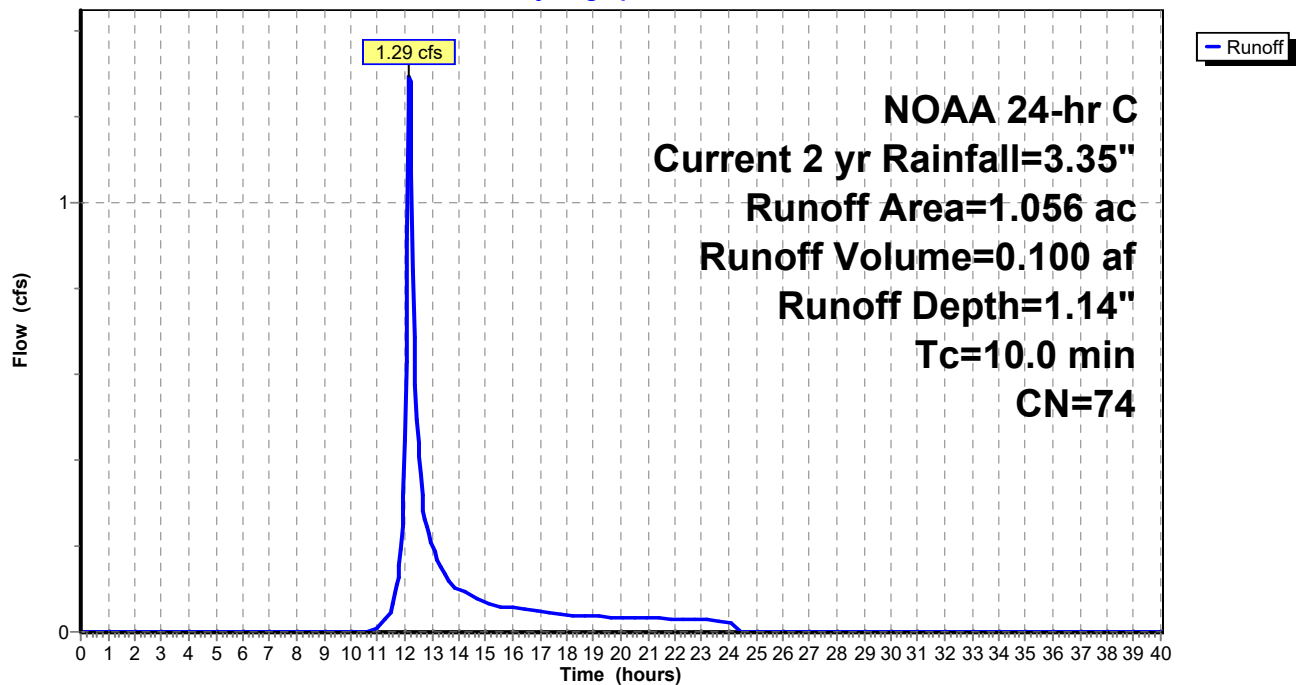
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

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

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

Subcatchment 16BP: PDA-16B (pervious)

Hydrograph



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

Runoff = 0.58 cfs @ 12.17 hrs, Volume= 0.050 af, Depth= 3.12"
 Routed to Pond B-17A : Basin #17A

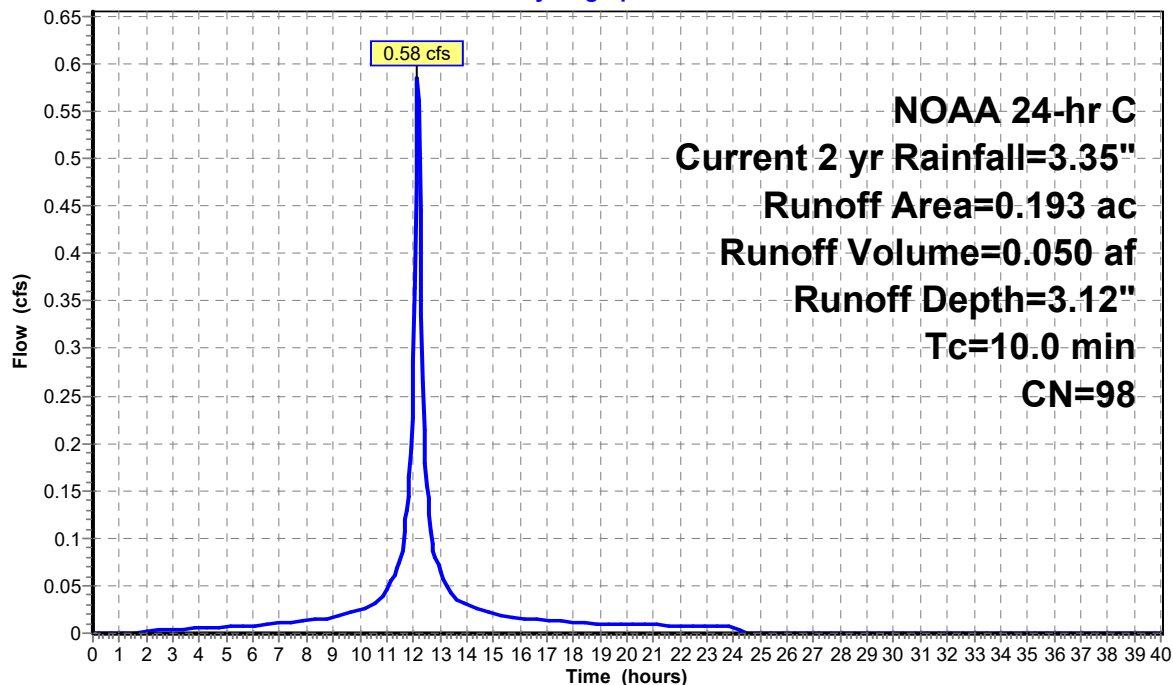
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

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

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

Subcatchment 17A1: PDA-17A (impervious)

Hydrograph



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

Runoff = 1.38 cfs @ 12.18 hrs, Volume= 0.107 af, Depth= 1.14"
 Routed to Pond B-17A : Basin #17A

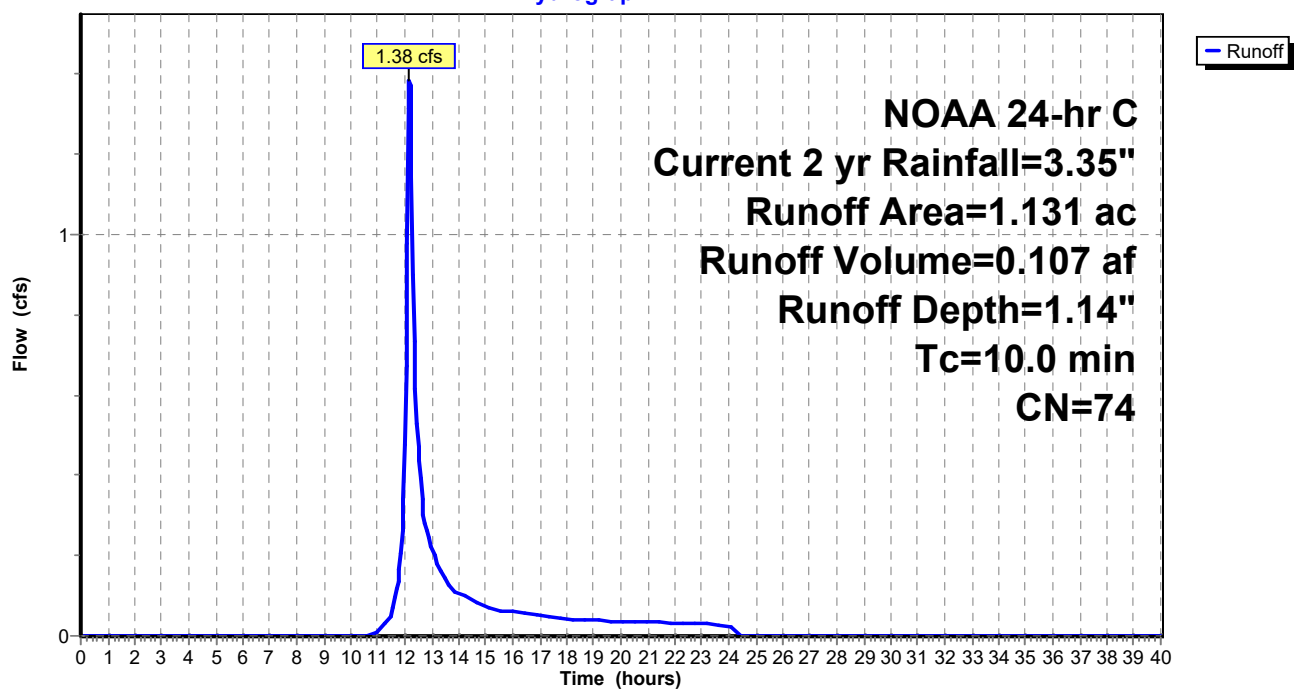
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

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

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

Subcatchment 17AP: PDA-17A (pervious)

Hydrograph



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

Runoff = 1.56 cfs @ 12.17 hrs, Volume= 0.134 af, Depth= 3.12"
 Routed to Pond B-17B : Basin #17B

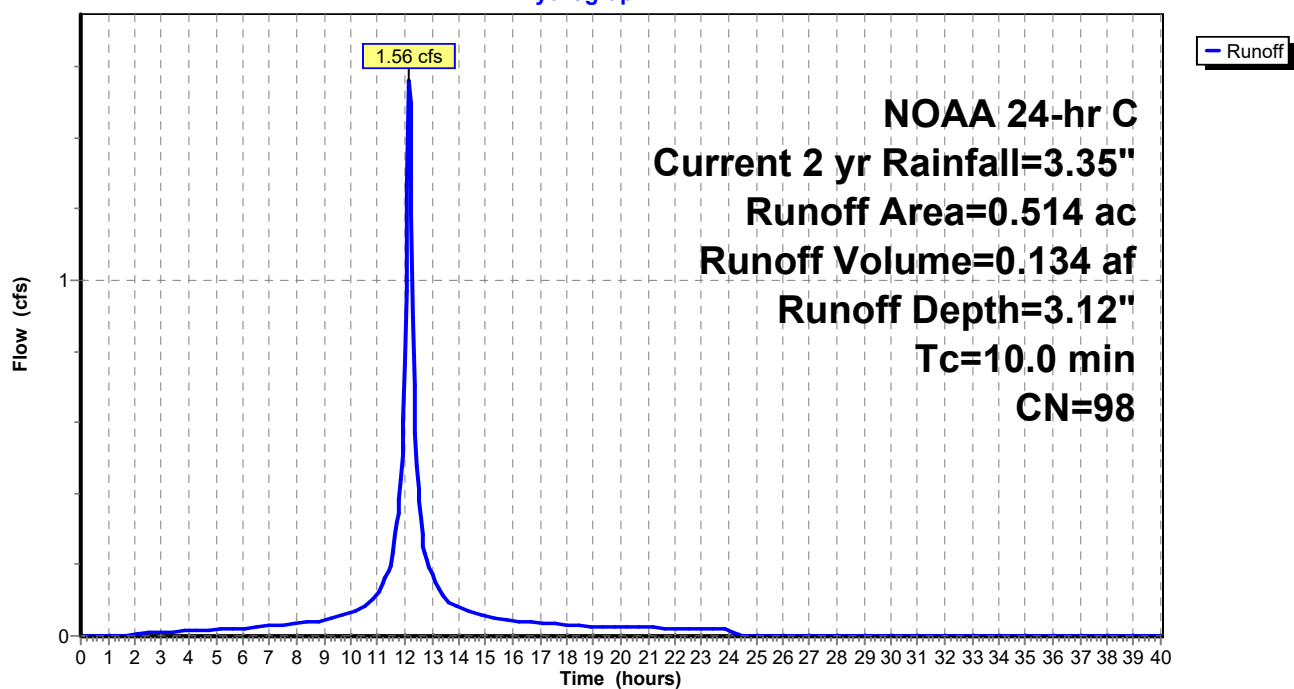
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

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

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

Subcatchment 17BI: PDA-17B (impervious)

Hydrograph



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

Runoff = 1.07 cfs @ 12.18 hrs, Volume= 0.083 af, Depth= 1.14"
 Routed to Pond B-17B : Basin #17B

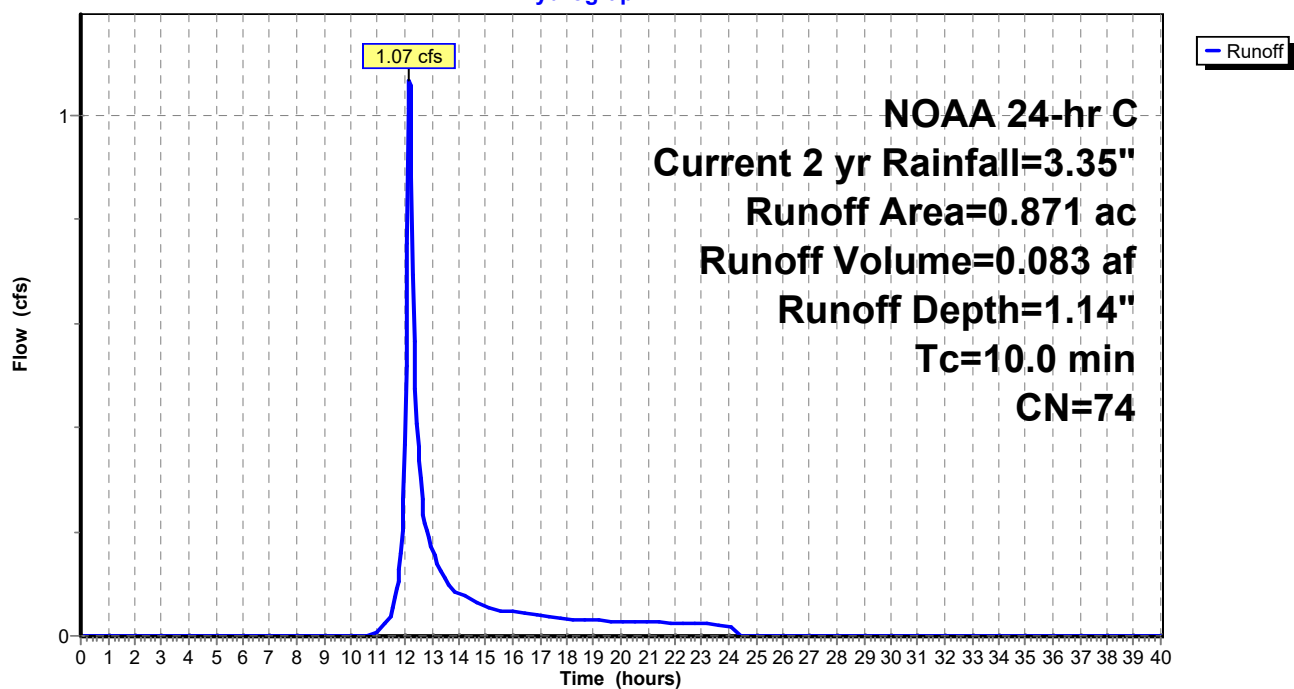
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

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

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

Subcatchment 17BP: PDA-17B (pervious)

Hydrograph



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

Runoff = 66.88 cfs @ 12.18 hrs, Volume= 5.182 af, Depth= 1.14"

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

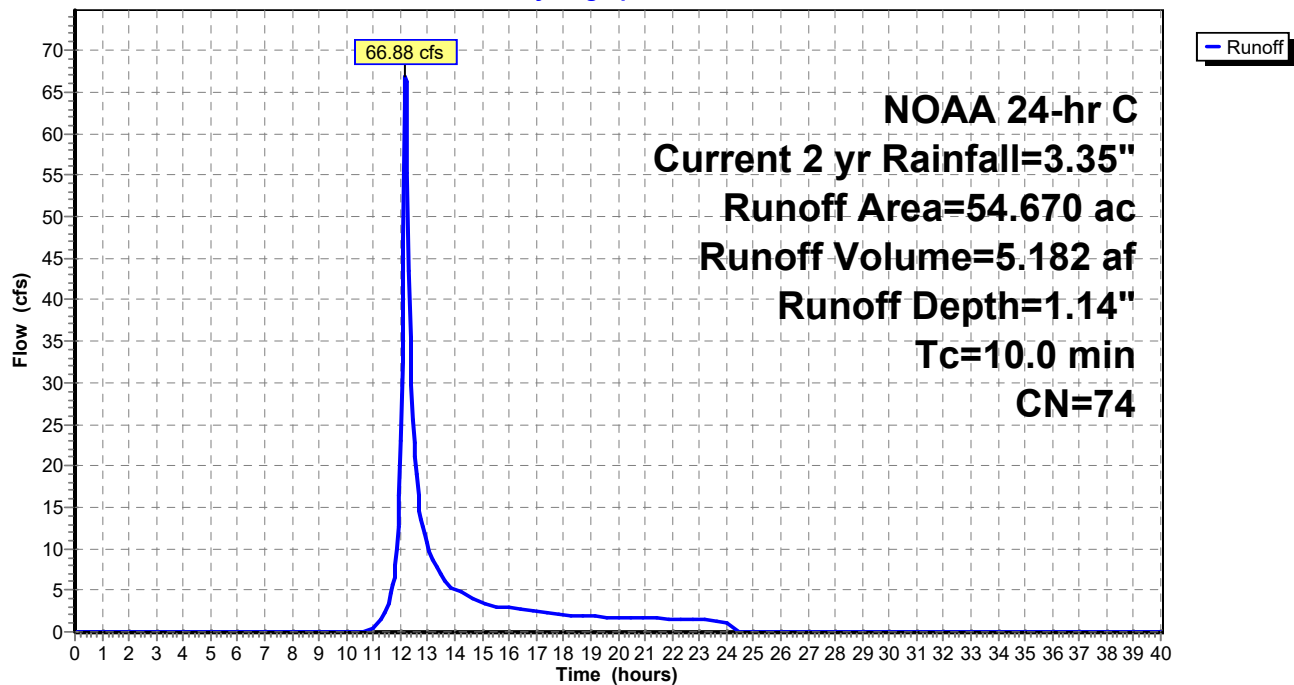
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 2 yr Rainfall=3.35"

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

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

Subcatchment UPDA-1: PDA-1 (undetained)

Hydrograph



Summary for Pond B-1: Basin #1

Inflow Area = 2.782 ac, 26.02% Impervious, Inflow Depth = 0.36" for Current 2 yr event
 Inflow = 1.09 cfs @ 12.18 hrs, Volume= 0.084 af
 Outflow = 0.02 cfs @ 22.91 hrs, Volume= 0.031 af, Atten= 98%, Lag= 643.7 min
 Primary = 0.02 cfs @ 22.91 hrs, Volume= 0.031 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 209.29' @ 22.91 hrs Surf.Area= 10,458 sf Storage= 2,956 cf

Plug-Flow detention time= 754.5 min calculated for 0.031 af (37% of inflow)
 Center-of-Mass det. time= 615.6 min (1,482.1 - 866.5)

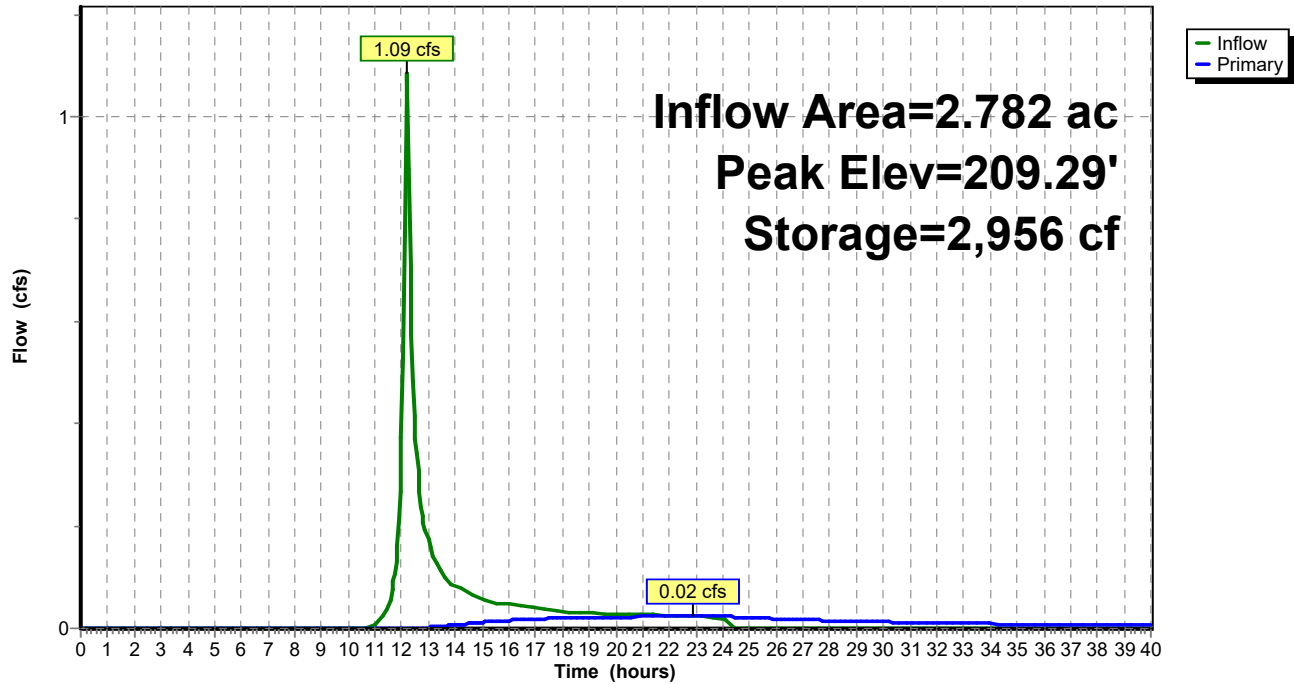
Volume	Invert	Avail.Storage	Storage Description
#1	209.00'	34,903 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

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

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

Primary OutFlow Max=0.02 cfs @ 22.91 hrs HW=209.29' (Free Discharge)

1=Culvert (Passes 0.02 cfs of 8.01 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.02 cfs @ 1.16 fps)
 3=Sharp-Crested Rectangular Weir(Controls 0.00 cfs)
 4=Broad-Crested Rectangular Weir(Controls 0.00 cfs)

Pond B-1: Basin #1**Hydrograph**

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

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

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

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

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

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

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

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

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

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

Summary for Pond B-10: Basin #10

Inflow Area = 1.674 ac, 56.63% Impervious, Inflow Depth = 2.26" for Current 2 yr event
 Inflow = 3.75 cfs @ 12.17 hrs, Volume= 0.315 af
 Outflow = 1.09 cfs @ 12.50 hrs, Volume= 0.223 af, Atten= 71%, Lag= 19.4 min
 Primary = 1.09 cfs @ 12.50 hrs, Volume= 0.223 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 180.43' @ 12.50 hrs Surf.Area= 5,356 sf Storage= 6,815 cf

Plug-Flow detention time= 217.8 min calculated for 0.223 af (71% of inflow)
 Center-of-Mass det. time= 118.7 min (902.2 - 783.5)

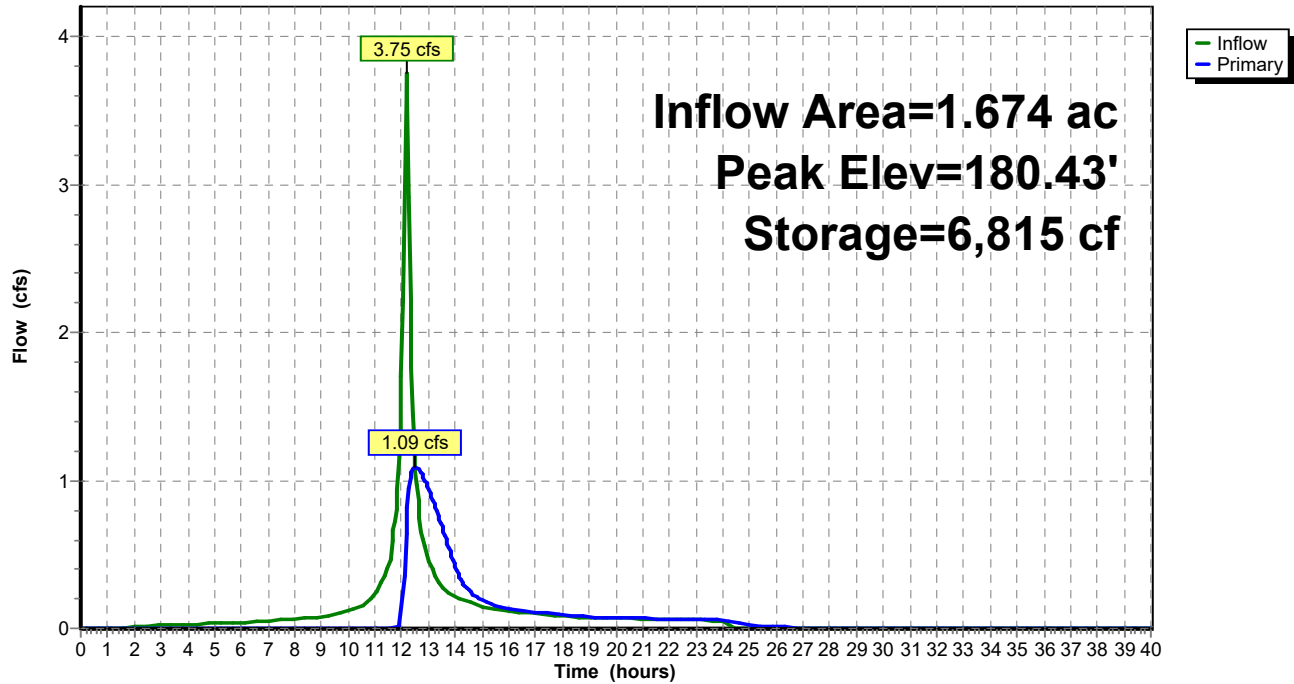
Volume	Invert	Avail.Storage	Storage Description
#1	179.00'	23,473 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

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

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

Primary OutFlow Max=1.09 cfs @ 12.50 hrs HW=180.43' (Free Discharge)

1=Culvert (Passes 1.09 cfs of 12.11 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 1.09 cfs @ 3.27 fps)
 3=Sharp-Crested Rectangular Weir(Controls 0.00 cfs)
 4=Broad-Crested Rectangular Weir(Controls 0.00 cfs)

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

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

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

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

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

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

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

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

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

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

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

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

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

Summary for Pond B-11: Basin #11

Inflow Area = 2.228 ac, 58.53% Impervious, Inflow Depth = 2.30" for Current 2 yr event
 Inflow = 5.07 cfs @ 12.17 hrs, Volume= 0.426 af
 Outflow = 0.18 cfs @ 15.14 hrs, Volume= 0.292 af, Atten= 96%, Lag= 178.2 min
 Primary = 0.18 cfs @ 15.14 hrs, Volume= 0.292 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 182.35' @ 15.14 hrs Surf.Area= 6,596 sf Storage= 13,318 cf

Plug-Flow detention time= 705.1 min calculated for 0.292 af (68% of inflow)
 Center-of-Mass det. time= 602.0 min (1,384.1 - 782.1)

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

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

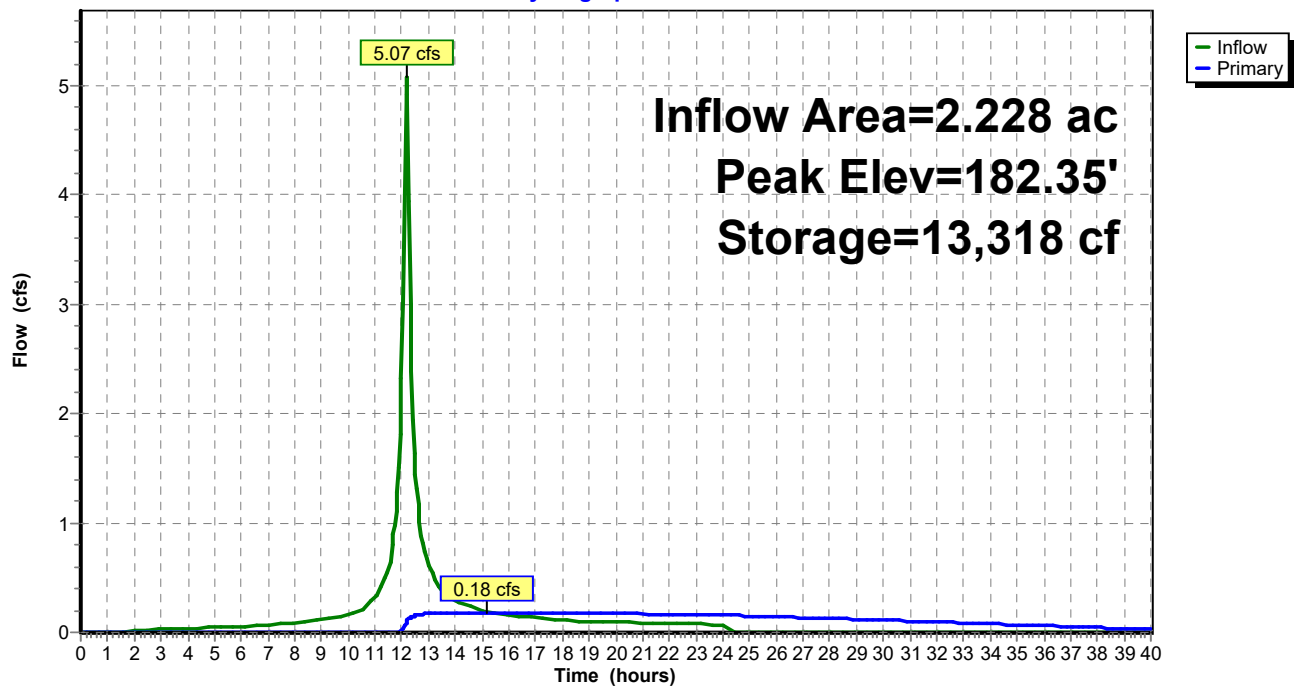
Device	Routing	Invert	Outlet Devices
#1	Primary	178.65'	18.0" Round Culvert L= 131.0' Ke= 0.500 Inlet / Outlet Invert= 178.65' / 178.00' S= 0.0050 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	181.00'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	182.75'	4.0'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

Primary OutFlow Max=0.18 cfs @ 15.14 hrs HW=182.35' (Free Discharge)

1=Culvert (Passes 0.18 cfs of 12.13 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.18 cfs @ 5.37 fps)
 3=Sharp-Crested Rectangular Weir(Controls 0.00 cfs)
 4=Broad-Crested Rectangular Weir(Controls 0.00 cfs)

Pond B-11: Basin #11

Hydrograph



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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Summary for Pond B-12: Basin #12

Inflow Area = 2.426 ac, 44.77% Impervious, Inflow Depth = 2.02" for Current 2 yr event
 Inflow = 4.92 cfs @ 12.17 hrs, Volume= 0.409 af
 Outflow = 1.07 cfs @ 12.63 hrs, Volume= 0.304 af, Atten= 78%, Lag= 27.4 min
 Primary = 1.07 cfs @ 12.63 hrs, Volume= 0.304 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 202.74' @ 12.63 hrs Surf.Area= 5,909 sf Storage= 9,157 cf

Plug-Flow detention time= 255.9 min calculated for 0.304 af (74% of inflow)
 Center-of-Mass det. time= 161.9 min (955.2 - 793.3)

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

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

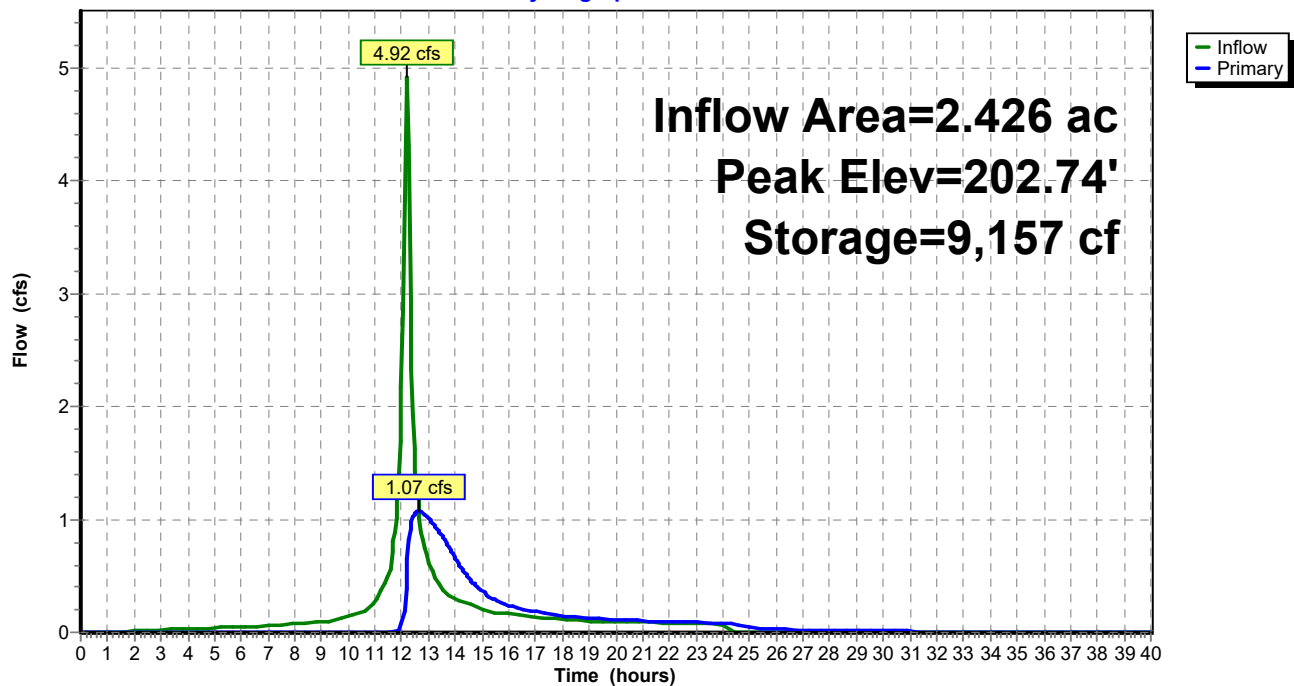
Device	Routing	Invert	Outlet Devices
#1	Primary	199.65'	18.0" Round Culvert L= 238.0' Ke= 0.500 Inlet / Outlet Invert= 199.65' / 195.50' S= 0.0174 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	201.90'	7.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	203.02'	4.0'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

Primary OutFlow Max=1.07 cfs @ 12.63 hrs HW=202.74' (Free Discharge)

1=Culvert (Passes 1.07 cfs of 13.02 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 1.07 cfs @ 3.50 fps)
 3=Sharp-Crested Rectangular Weir(Controls 0.00 cfs)
 4=Broad-Crested Rectangular Weir(Controls 0.00 cfs)

Pond B-12: Basin #12

Hydrograph



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

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

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

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

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

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

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

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

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

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

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

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

Summary for Pond B-13: Basin #13

Inflow Area = 2.350 ac, 62.43% Impervious, Inflow Depth = 2.37" for Current 2 yr event
 Inflow = 5.52 cfs @ 12.17 hrs, Volume= 0.465 af
 Outflow = 0.16 cfs @ 16.40 hrs, Volume= 0.285 af, Atten= 97%, Lag= 253.6 min
 Primary = 0.16 cfs @ 16.40 hrs, Volume= 0.285 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 193.74' @ 16.40 hrs Surf.Area= 9,431 sf Storage= 15,116 cf

Plug-Flow detention time= 785.0 min calculated for 0.285 af (61% of inflow)
 Center-of-Mass det. time= 672.5 min (1,452.0 - 779.4)

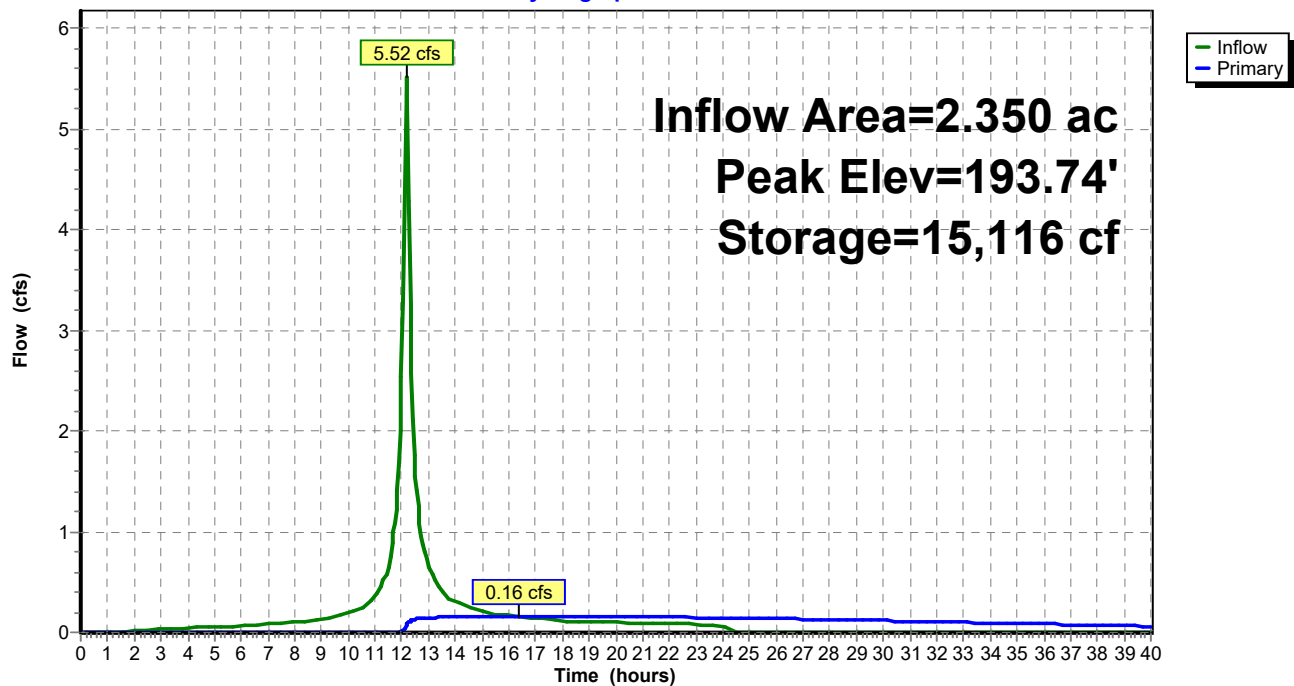
Volume	Invert	Avail.Storage	Storage Description
#1	192.00'	38,667 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

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

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

Primary OutFlow Max=0.16 cfs @ 16.40 hrs HW=193.74' (Free Discharge)

1=Culvert (Passes 0.16 cfs of 13.01 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.16 cfs @ 4.65 fps)
 3=Sharp-Crested Rectangular Weir(Controls 0.00 cfs)
 4=Broad-Crested Rectangular Weir(Controls 0.00 cfs)

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

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

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

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

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

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

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

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

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

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

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

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

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

Summary for Pond B-14: Basin #14

Inflow Area = 2.148 ac, 23.65% Impervious, Inflow Depth = 1.61" for Current 2 yr event
 Inflow = 3.53 cfs @ 12.18 hrs, Volume= 0.287 af
 Outflow = 0.13 cfs @ 15.98 hrs, Volume= 0.202 af, Atten= 96%, Lag= 227.9 min
 Primary = 0.13 cfs @ 15.98 hrs, Volume= 0.202 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 193.12' @ 15.98 hrs Surf.Area= 7,887 sf Storage= 8,501 cf

Plug-Flow detention time= 665.2 min calculated for 0.202 af (70% of inflow)
 Center-of-Mass det. time= 559.2 min (1,377.0 - 817.7)

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

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

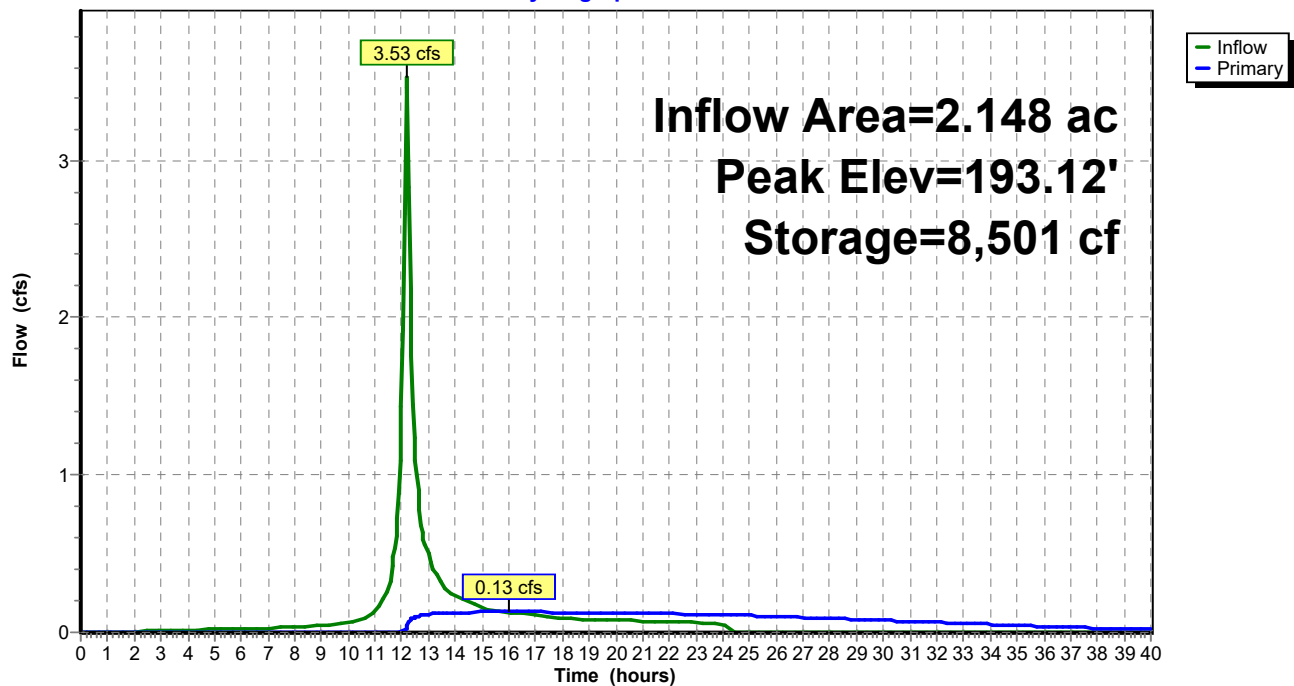
Device	Routing	Invert	Outlet Devices
#1	Primary	190.65'	18.0" Round Culvert L= 194.0' Ke= 0.500 Inlet / Outlet Invert= 190.65' / 188.00' S= 0.0137 ' /' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	192.40'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	193.45'	4.0'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

Primary OutFlow Max=0.13 cfs @ 15.98 hrs HW=193.12' (Free Discharge)

1=Culvert (Passes 0.13 cfs of 11.17 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.13 cfs @ 3.79 fps)
 3=Sharp-Crested Rectangular Weir(Controls 0.00 cfs)
 4=Broad-Crested Rectangular Weir(Controls 0.00 cfs)

Pond B-14: Basin #14

Hydrograph



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

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

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

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

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

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

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

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

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

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

Summary for Pond B-15: Basin #15

Inflow Area = 2.365 ac, 58.73% Impervious, Inflow Depth = 2.30" for Current 2 yr event
 Inflow = 5.39 cfs @ 12.17 hrs, Volume= 0.453 af
 Outflow = 1.02 cfs @ 12.67 hrs, Volume= 0.326 af, Atten= 81%, Lag= 29.8 min
 Primary = 1.02 cfs @ 12.67 hrs, Volume= 0.326 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 198.47' @ 12.67 hrs Surf.Area= 5,072 sf Storage= 10,807 cf

Plug-Flow detention time= 265.0 min calculated for 0.326 af (72% of inflow)
 Center-of-Mass det. time= 167.0 min (948.9 - 782.0)

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

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

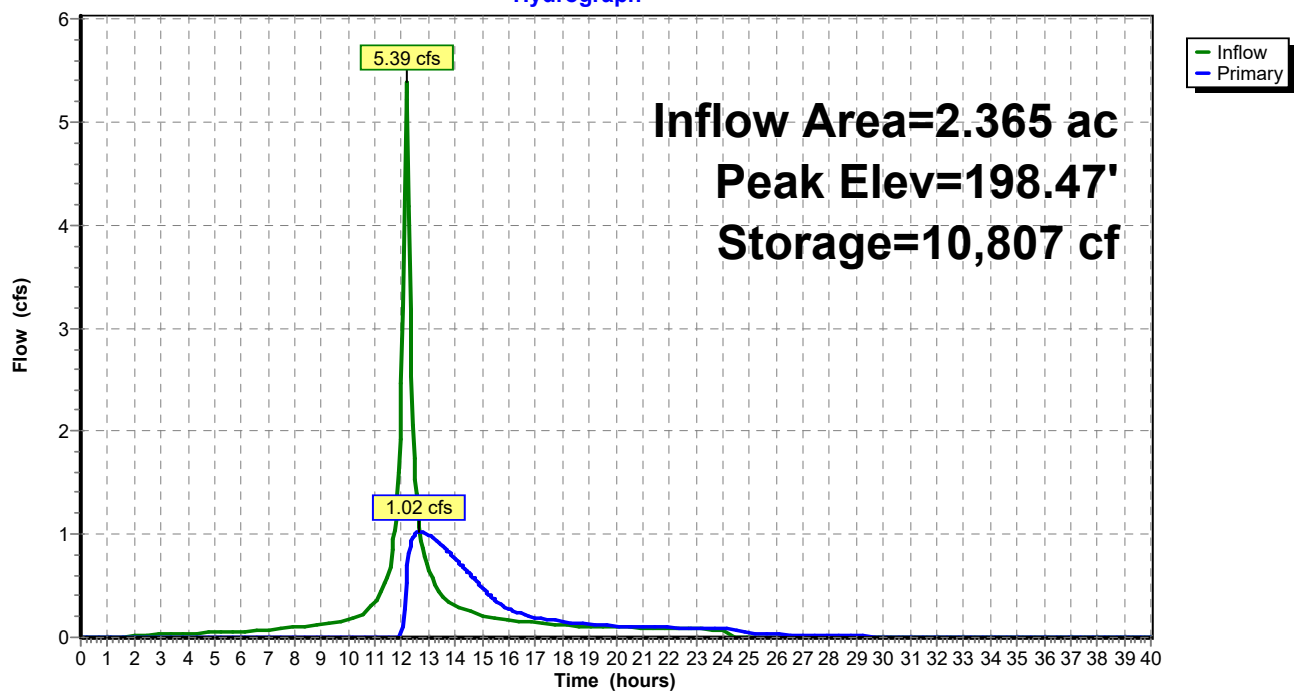
Device	Routing	Invert	Outlet Devices
#1	Primary	194.65'	18.0" Round Culvert L= 203.0' Ke= 0.500 Inlet / Outlet Invert= 194.65' / 192.00' S= 0.0131 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	197.35'	6.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	198.58'	4.0'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

Primary OutFlow Max=1.02 cfs @ 12.67 hrs HW=198.47' (Free Discharge)

1=Culvert (Passes 1.02 cfs of 13.85 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 1.02 cfs @ 4.44 fps)
 3=Sharp-Crested Rectangular Weir(Controls 0.00 cfs)
 4=Broad-Crested Rectangular Weir(Controls 0.00 cfs)

Pond B-15: Basin #15

Hydrograph



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

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

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

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

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

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

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

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

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

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

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

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

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

Inflow Area = 1.876 ac, 45.47% Impervious, Inflow Depth = 2.04" for Current 2 yr event
 Inflow = 3.83 cfs @ 12.17 hrs, Volume= 0.319 af
 Outflow = 2.04 cfs @ 12.33 hrs, Volume= 0.239 af, Atten= 47%, Lag= 9.3 min
 Primary = 2.04 cfs @ 12.33 hrs, Volume= 0.239 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 179.74' @ 12.33 hrs Surf.Area= 3,855 sf Storage= 5,544 cf

Plug-Flow detention time= 184.8 min calculated for 0.239 af (75% of inflow)
 Center-of-Mass det. time= 90.2 min (882.8 - 792.6)

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

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

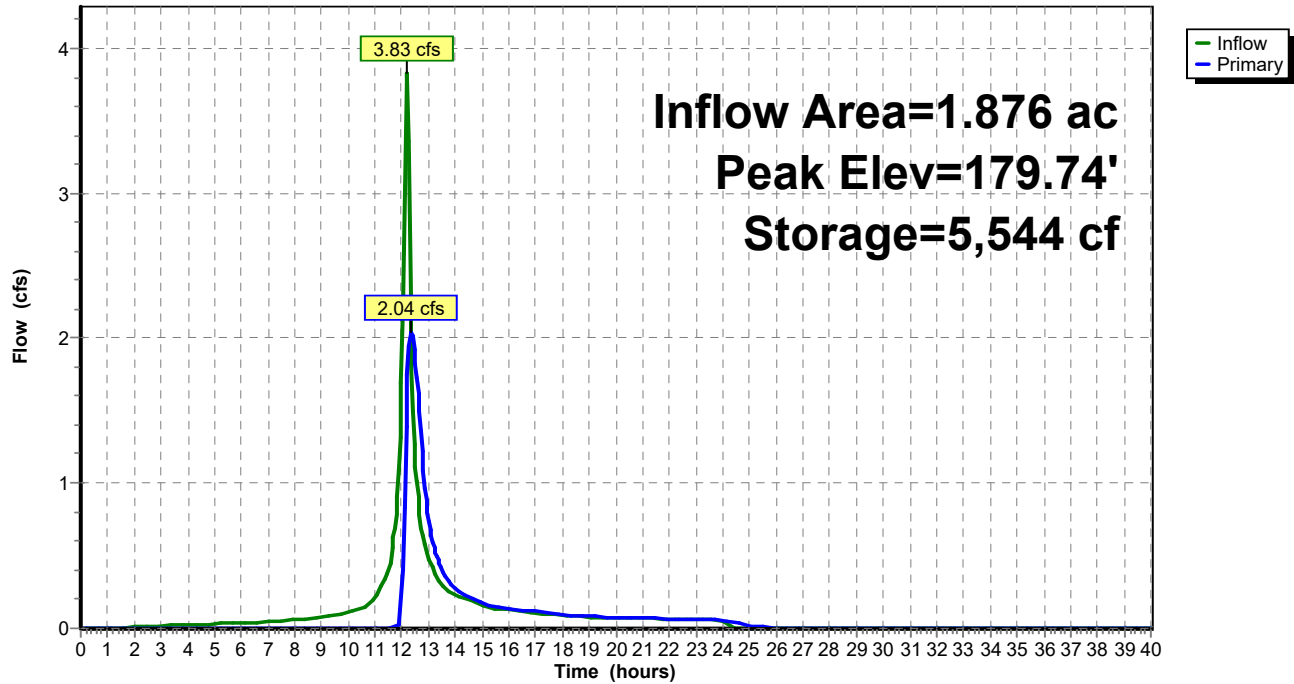
Device	Routing	Invert	Outlet Devices
#1	Primary	176.65'	18.0" Round Culvert L= 53.0' Ke= 0.500 Inlet / Outlet Invert= 176.65' / 172.00' S= 0.0877 ' S= 0.0877 ' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	179.16'	24.0" W x 4.0" H Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3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

Primary OutFlow Max=2.03 cfs @ 12.33 hrs HW=179.73' (Free Discharge)

1=Culvert (Passes 2.03 cfs of 13.00 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 2.03 cfs @ 3.05 fps)
 3=Sharp-Crested Rectangular Weir (Controls 0.00 cfs)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-16A: Basin #16A

Hydrograph



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

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

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

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

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

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

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

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

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

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

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

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

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

Inflow Area = 1.877 ac, 43.74% Impervious, Inflow Depth = 2.00" for Current 2 yr event
 Inflow = 3.77 cfs @ 12.17 hrs, Volume= 0.313 af
 Outflow = 1.24 cfs @ 12.46 hrs, Volume= 0.234 af, Atten= 67%, Lag= 17.1 min
 Primary = 1.24 cfs @ 12.46 hrs, Volume= 0.234 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 179.68' @ 12.46 hrs Surf.Area= 4,236 sf Storage= 6,183 cf

Plug-Flow detention time= 196.2 min calculated for 0.234 af (75% of inflow)
 Center-of-Mass det. time= 100.5 min (894.7 - 794.2)

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

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

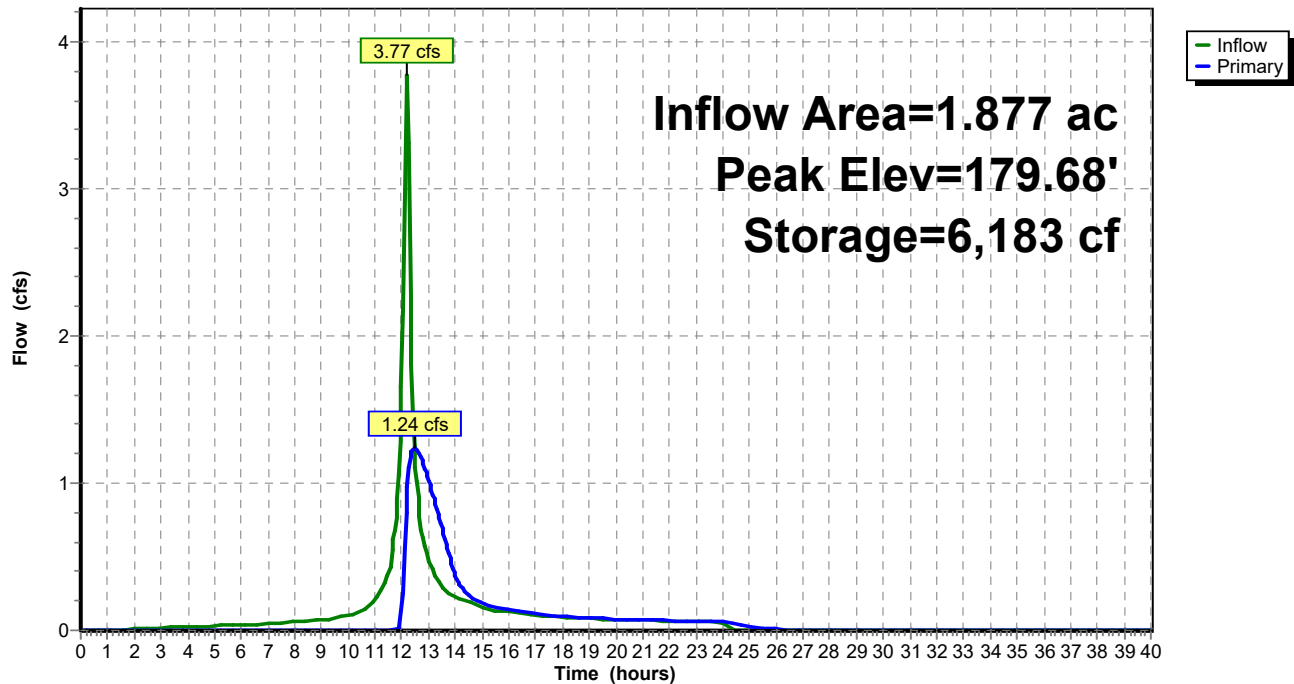
Device	Routing	Invert	Outlet Devices
#1	Primary	176.65'	18.0" Round Culvert L= 53.0' Ke= 0.500 Inlet / Outlet Invert= 176.65' / 172.00' S= 0.0877 ' S= 0.0877 ' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	179.00'	24.0" W x 2.0" H Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3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

Primary OutFlow Max=1.24 cfs @ 12.46 hrs HW=179.68' (Free Discharge)

1=Culvert (Passes 1.24 cfs of 12.84 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 1.24 cfs @ 3.71 fps)
 3=Sharp-Crested Rectangular Weir (Controls 0.00 cfs)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-16B: Basin #16B

Hydrograph



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

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

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

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

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

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

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

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

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

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

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

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

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

Inflow Area = 1.324 ac, 14.58% Impervious, Inflow Depth = 1.43" for Current 2 yr event
 Inflow = 1.96 cfs @ 12.18 hrs, Volume= 0.157 af
 Outflow = 0.11 cfs @ 14.68 hrs, Volume= 0.127 af, Atten= 95%, Lag= 150.0 min
 Primary = 0.11 cfs @ 14.68 hrs, Volume= 0.127 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 179.71' @ 14.68 hrs Surf.Area= 6,212 sf Storage= 4,149 cf

Plug-Flow detention time= 496.7 min calculated for 0.127 af (81% of inflow)
 Center-of-Mass det. time= 414.7 min (1,247.4 - 832.7)

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

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

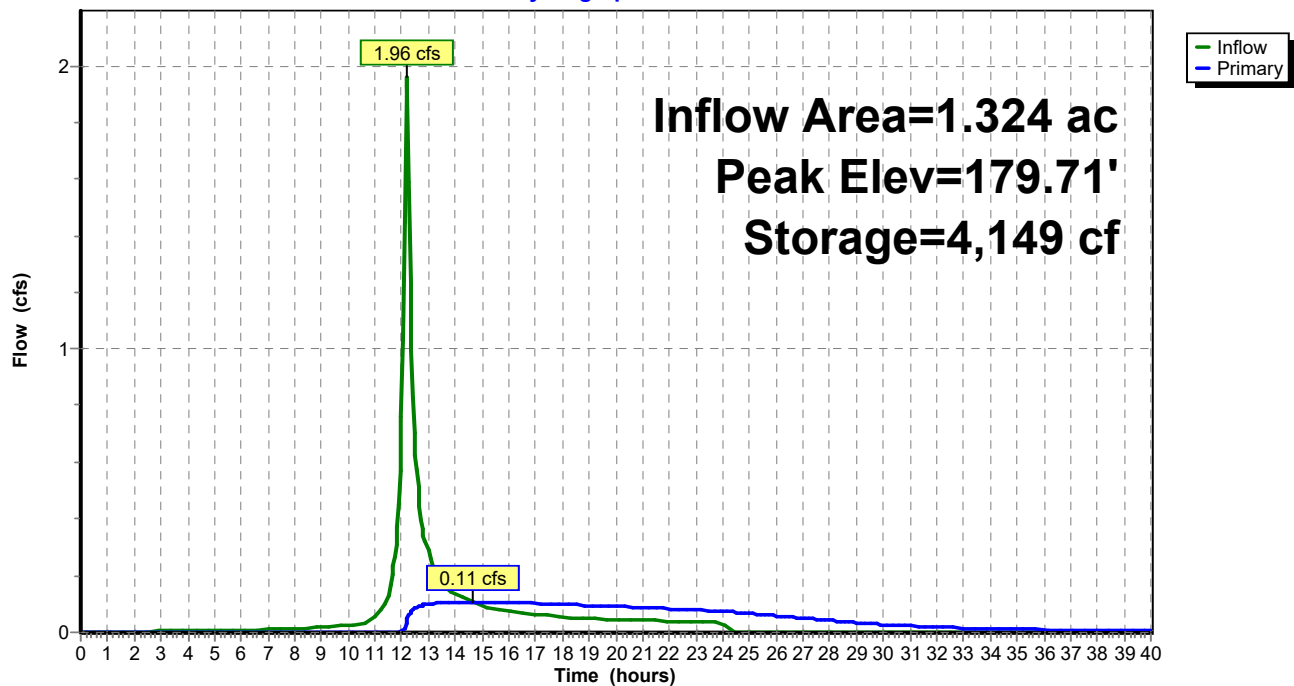
Device	Routing	Invert	Outlet Devices
#1	Primary	177.65'	18.0" Round Culvert L= 40.0' Ke= 0.500 Inlet / Outlet Invert= 177.65' / 177.00' S= 0.0163 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	179.18'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	182.00'	4.0'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

Primary OutFlow Max=0.11 cfs @ 14.68 hrs HW=179.71' (Free Discharge)

1=Culvert (Passes 0.11 cfs of 9.73 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.11 cfs @ 3.13 fps)
 3=Sharp-Crested Rectangular Weir(Controls 0.00 cfs)
 4=Broad-Crested Rectangular Weir(Controls 0.00 cfs)

Pond B-17A: Basin #17A

Hydrograph



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

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

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

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

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

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

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

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

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

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

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

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

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

Inflow Area = 1.385 ac, 37.11% Impervious, Inflow Depth = 1.87" for Current 2 yr event
 Inflow = 2.61 cfs @ 12.18 hrs, Volume= 0.216 af
 Outflow = 0.12 cfs @ 14.75 hrs, Volume= 0.147 af, Atten= 95%, Lag= 154.2 min
 Primary = 0.12 cfs @ 14.75 hrs, Volume= 0.147 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 179.87' @ 14.75 hrs Surf.Area= 7,879 sf Storage= 6,404 cf

Plug-Flow detention time= 615.7 min calculated for 0.147 af (68% of inflow)
 Center-of-Mass det. time= 508.7 min (1,309.5 - 800.9)

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

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

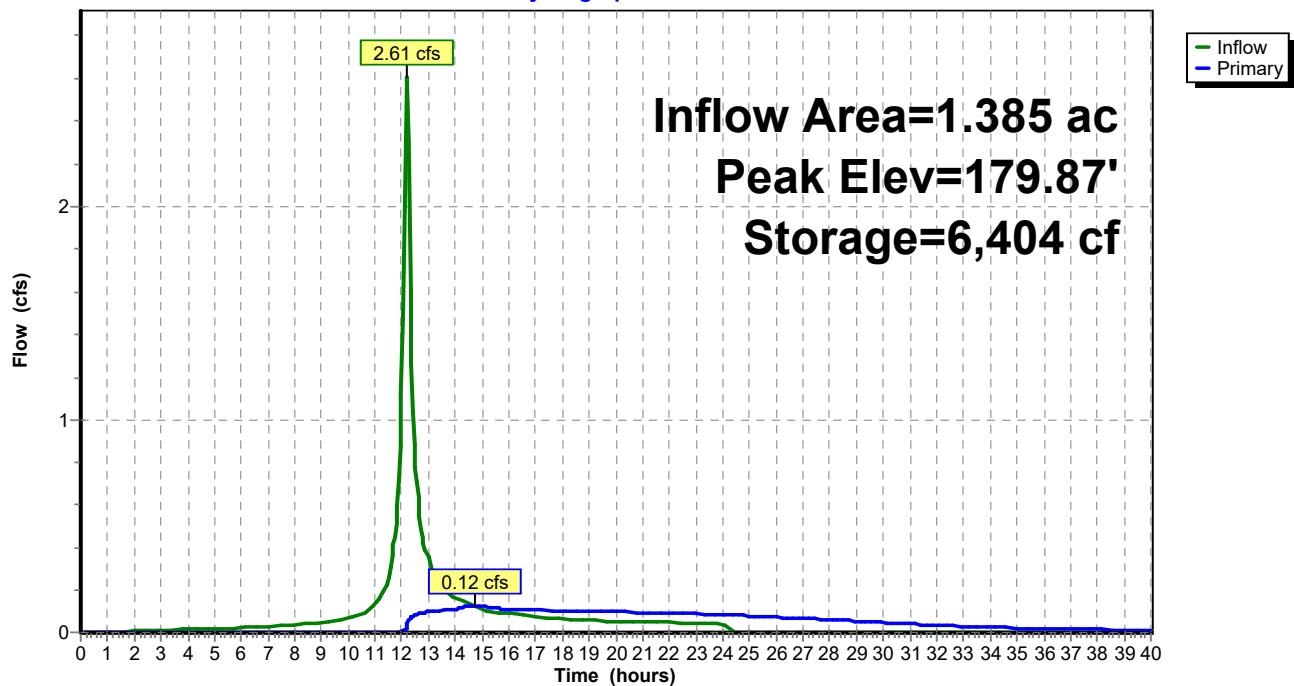
Device	Routing	Invert	Outlet Devices
#1	Primary	177.65'	18.0" Round Culvert L= 40.0' Ke= 0.500 Inlet / Outlet Invert= 177.65' / 177.00' S= 0.0163 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	179.35'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	179.86'	4.0'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

Primary OutFlow Max=0.12 cfs @ 14.75 hrs HW=179.87' (Free Discharge)

1=Culvert (Passes 0.12 cfs of 10.31 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.11 cfs @ 3.10 fps)
 3=Sharp-Crested Rectangular Weir (Weir Controls 0.01 cfs @ 0.32 fps)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-17B: Basin #17B

Hydrograph



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

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

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

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

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

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

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

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

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

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

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

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

Summary for Pond B-2: Basin #2

Inflow Area = 1.894 ac, 38.23% Impervious, Inflow Depth = 1.89" for Current 2 yr event
 Inflow = 3.62 cfs @ 12.17 hrs, Volume= 0.299 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 100%, Lag= 0.0 min
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
 Routed to Pond B-1 : Basin #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 210.28' @ 24.60 hrs Surf.Area= 8,703 sf Storage= 13,023 cf

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

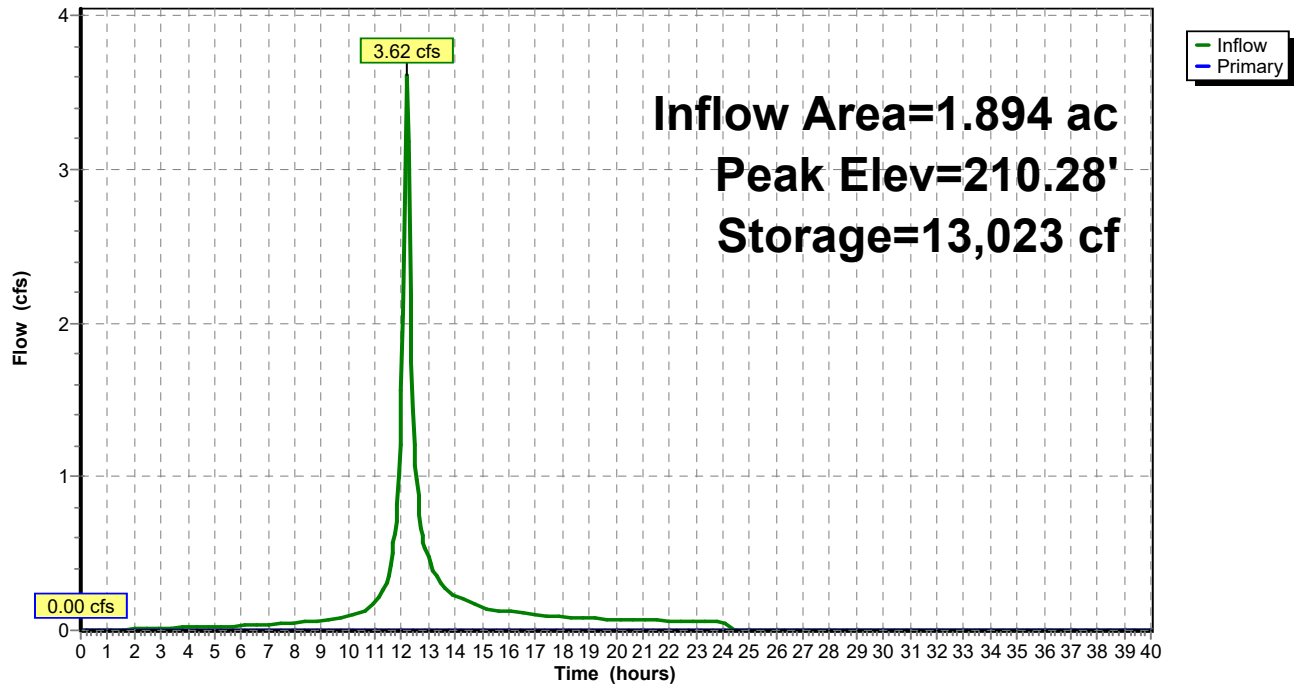
Volume	Invert	Avail.Storage	Storage Description
#1	208.30'	29,385 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Summary for Pond B-3: Basin #3

Inflow Area = 1.554 ac, 38.35% Impervious, Inflow Depth = 1.90" for Current 2 yr event
 Inflow = 2.97 cfs @ 12.17 hrs, Volume= 0.246 af
 Outflow = 0.13 cfs @ 14.96 hrs, Volume= 0.233 af, Atten= 96%, Lag= 167.0 min
 Primary = 0.13 cfs @ 14.96 hrs, Volume= 0.233 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 213.60' @ 14.96 hrs Surf.Area= 11,605 sf Storage= 6,469 cf

Plug-Flow detention time= 589.5 min calculated for 0.233 af (95% of inflow)
 Center-of-Mass det. time= 560.3 min (1,359.8 - 799.6)

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

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

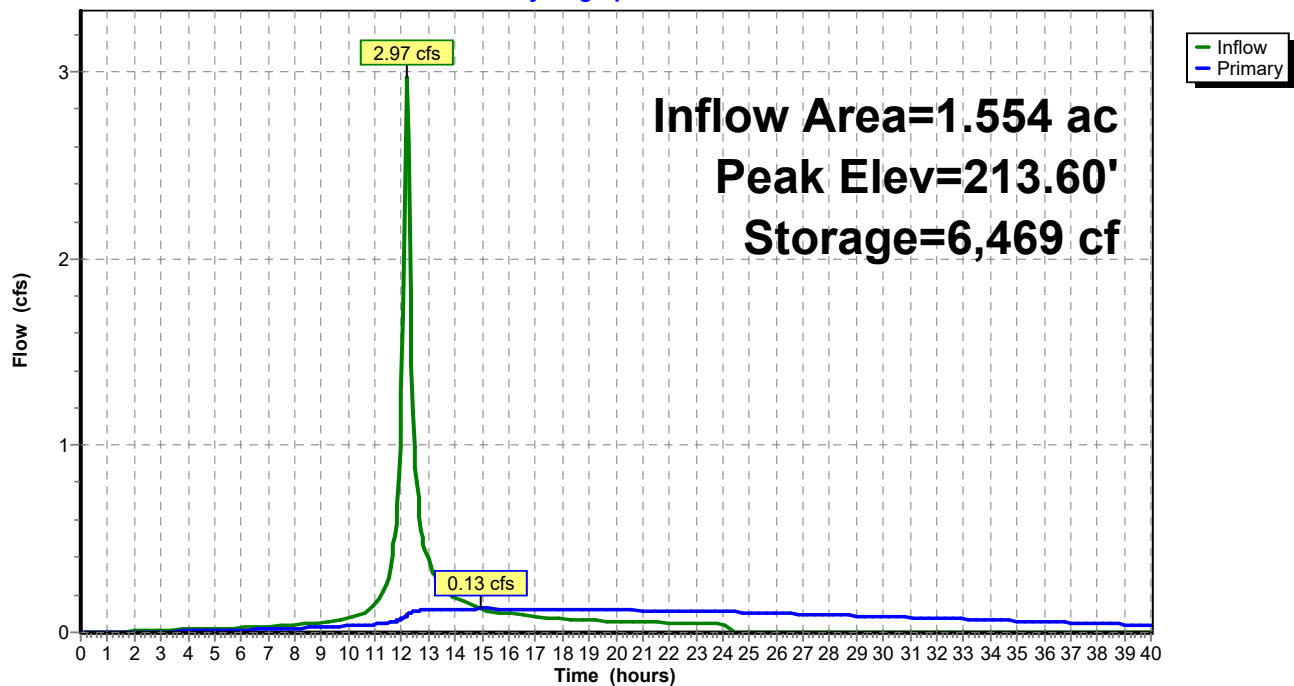
Device	Routing	Invert	Outlet Devices
#1	Primary	212.30'	18.0" Round Culvert L= 151.0' Ke= 0.500 Inlet / Outlet Invert= 212.30' / 202.00' S= 0.0682 ' S= 0.0682 ' Cc= 0.900 n= 0.013 Concrete pipe, straight & clean, Flow Area= 1.77 sf
#2	Device 1	212.90'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir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

Primary OutFlow Max=0.13 cfs @ 14.96 hrs HW=213.60' (Free Discharge)

1=Culvert (Passes 0.13 cfs of 6.31 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.13 cfs @ 3.71 fps)
 3=Sharp-Crested Rectangular Weir(Controls 0.00 cfs)
 4=Broad-Crested Rectangular Weir(Controls 0.00 cfs)

Pond B-3: Basin #3

Hydrograph



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

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

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

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

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

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

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

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

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

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

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

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

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

Inflow Area = 2.331 ac, 36.89% Impervious, Inflow Depth = 1.87" for Current 2 yr event
 Inflow = 4.38 cfs @ 12.18 hrs, Volume= 0.363 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 100%, Lag= 0.0 min
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
 Routed to Pond B-5 : Basin #5

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 204.59' @ 24.60 hrs Surf.Area= 5,240 sf Storage= 15,804 cf

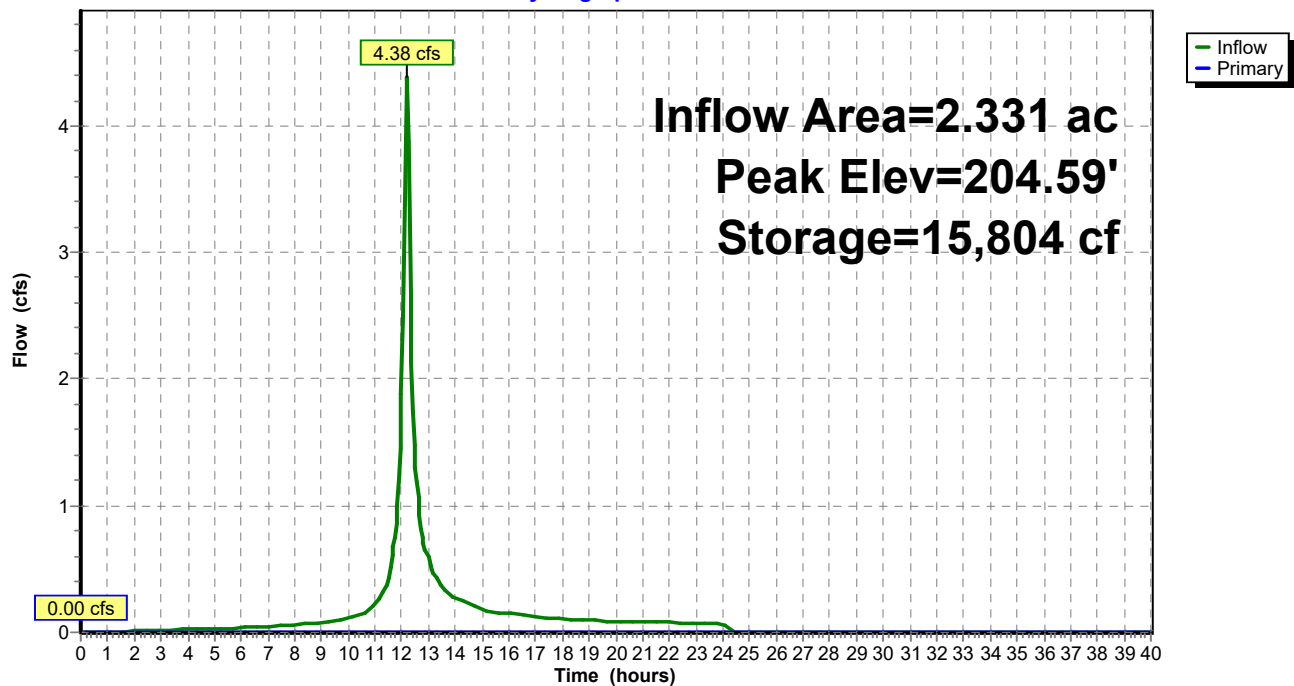
Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= (not calculated: no outflow)

Volume	Invert	Avail.Storage	Storage Description
#1	200.00'	20,963 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
200.00	1,891	0	0
201.00	2,495	2,193	2,193
202.00	3,169	2,832	5,025
203.00	3,912	3,541	8,566
204.00	4,724	4,318	12,884
205.00	5,604	5,164	18,048
205.50	6,057	2,915	20,963

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

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

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

Pond B-4A: Basin #4A**Hydrograph**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Inflow Area = 2.331 ac, 36.89% Impervious, Inflow Depth = 1.87" for Current 2 yr event
 Inflow = 4.38 cfs @ 12.18 hrs, Volume= 0.363 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 100%, Lag= 0.0 min
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
 Routed to Pond B-5 : Basin #5

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 204.36' @ 24.60 hrs Surf.Area= 5,691 sf Storage= 15,804 cf

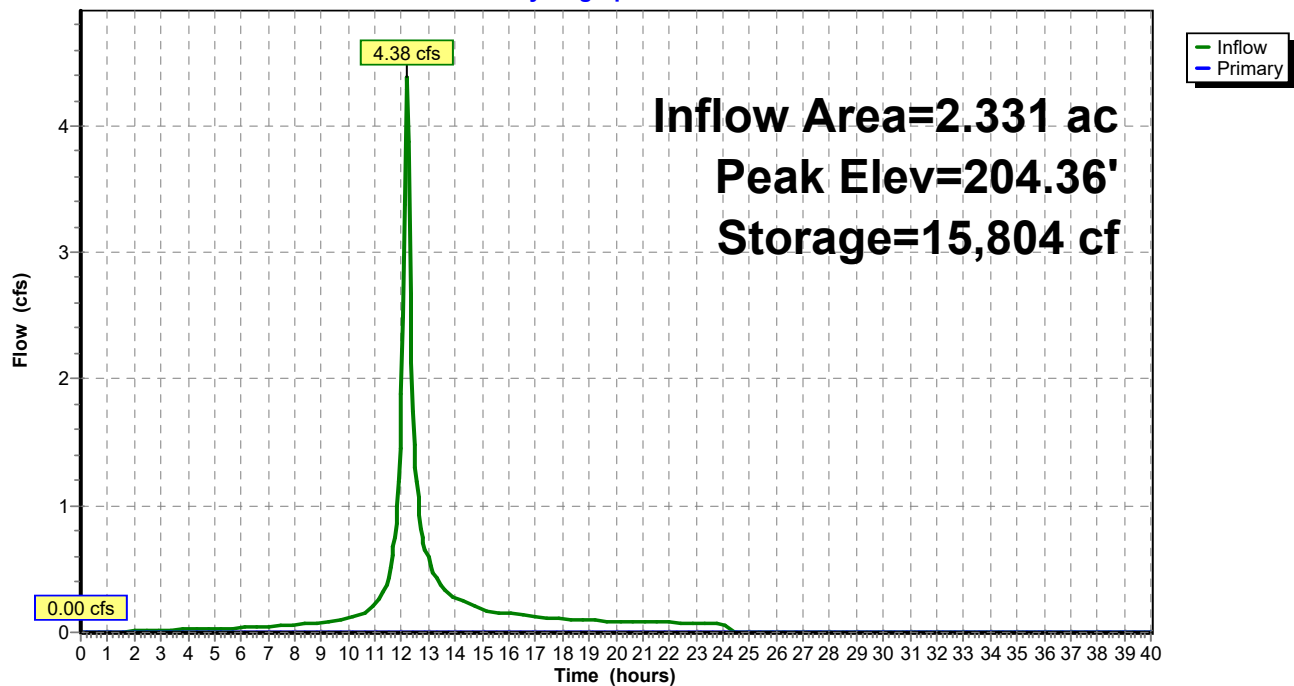
Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= (not calculated: no outflow)

Volume	Invert	Avail.Storage	Storage Description
#1	200.00'	22,995 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
200.00	1,852	0	0
201.00	2,571	2,212	2,212
202.00	3,384	2,978	5,189
203.00	4,292	3,838	9,027
204.00	5,294	4,793	13,820
205.00	6,393	5,844	19,664
205.50	6,934	3,332	22,995

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

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

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

Pond B-4B: Basin #4B**Hydrograph**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Summary for Pond B-5: Basin #5

Inflow Area = 5.341 ac, 32.20% Impervious, Inflow Depth = 0.14" for Current 2 yr event
 Inflow = 0.83 cfs @ 12.18 hrs, Volume= 0.064 af
 Outflow = 0.03 cfs @ 17.12 hrs, Volume= 0.044 af, Atten= 96%, Lag= 296.0 min
 Primary = 0.03 cfs @ 17.12 hrs, Volume= 0.044 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 200.16' @ 17.12 hrs Surf.Area= 11,813 sf Storage= 1,827 cf

Plug-Flow detention time= 638.5 min calculated for 0.044 af (68% of inflow)
 Center-of-Mass det. time= 527.2 min (1,393.7 - 866.5)

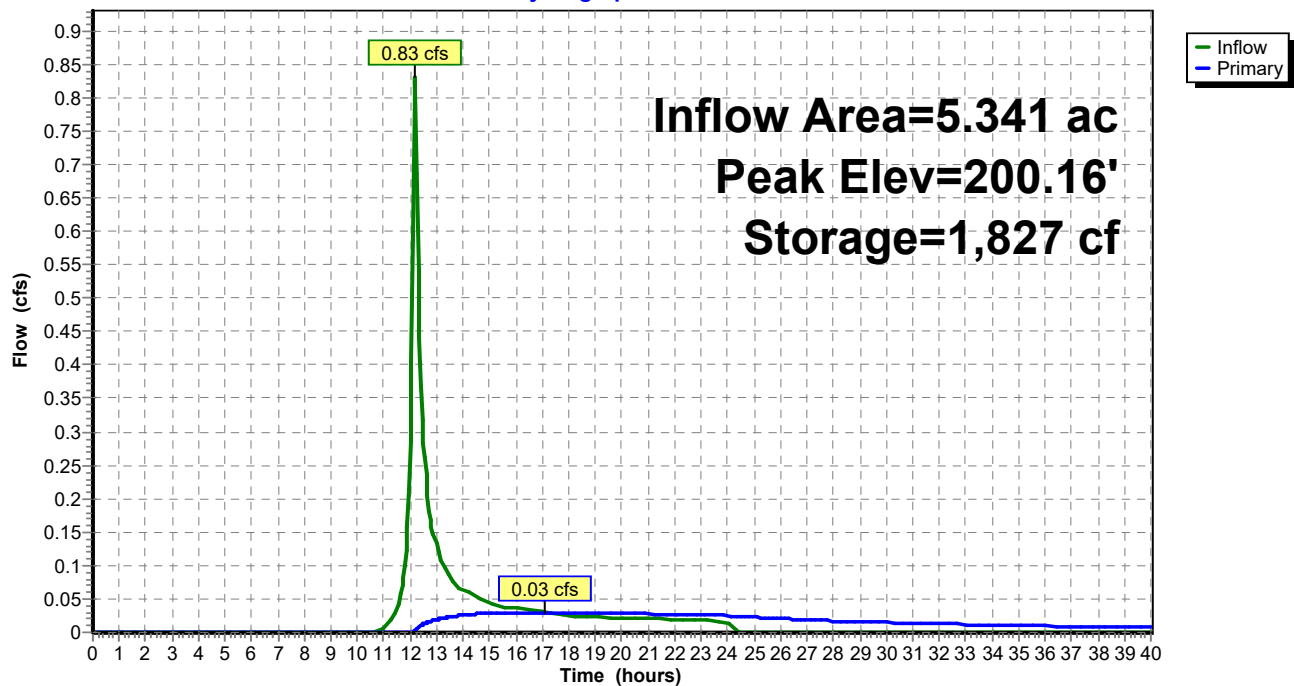
Volume	Invert	Avail.Storage	Storage Description
#1	200.00'	91,976 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

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

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

Primary OutFlow Max=0.03 cfs @ 17.12 hrs HW=200.16' (Free Discharge)

1=Culvert (Passes 0.03 cfs of 7.40 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.03 cfs @ 1.25 fps)
 3=Sharp-Crested Rectangular Weir(Controls 0.00 cfs)
 4=Broad-Crested Rectangular Weir(Controls 0.00 cfs)

Pond B-5: Basin #5**Hydrograph**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Summary for Pond B-6: Basin #6

Inflow Area = 1.191 ac, 58.27% Impervious, Inflow Depth = 2.29" for Current 2 yr event
 Inflow = 2.71 cfs @ 12.17 hrs, Volume= 0.227 af
 Outflow = 0.22 cfs @ 13.41 hrs, Volume= 0.156 af, Atten= 92%, Lag= 74.5 min
 Primary = 0.22 cfs @ 13.41 hrs, Volume= 0.156 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 200.14' @ 13.41 hrs Surf.Area= 6,155 sf Storage= 6,551 cf

Plug-Flow detention time= 542.4 min calculated for 0.156 af (69% of inflow)
 Center-of-Mass det. time= 441.1 min (1,223.4 - 782.3)

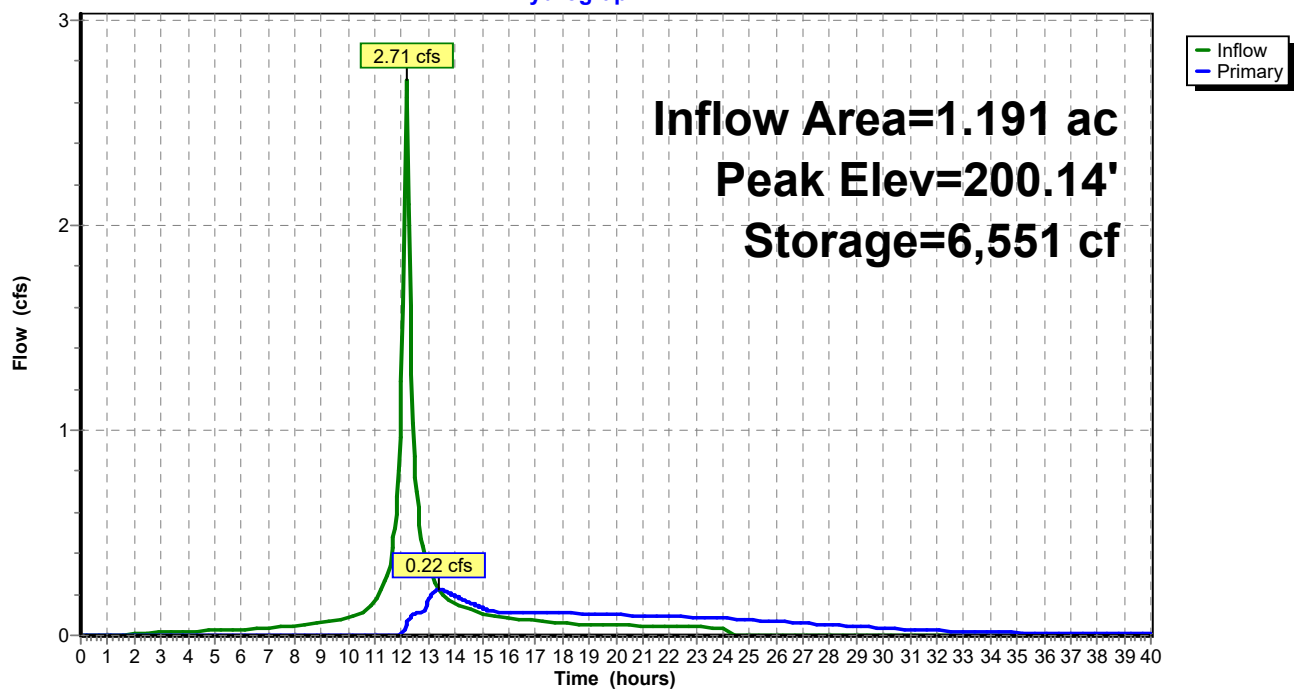
Volume	Invert	Avail.Storage	Storage Description
#1	199.00'	35,769 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

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

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

Primary OutFlow Max=0.21 cfs @ 13.41 hrs HW=200.14' (Free Discharge)

1=Culvert (Passes 0.21 cfs of 8.48 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.12 cfs @ 3.51 fps)
 3=Sharp-Crested Rectangular Weir (Weir Controls 0.09 cfs @ 0.61 fps)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Summary for Pond B-7: Basin #7

Inflow Area = 1.564 ac, 62.85% Impervious, Inflow Depth = 2.38" for Current 2 yr event
 Inflow = 3.68 cfs @ 12.17 hrs, Volume= 0.310 af
 Outflow = 0.32 cfs @ 13.34 hrs, Volume= 0.232 af, Atten= 91%, Lag= 70.0 min
 Primary = 0.32 cfs @ 13.34 hrs, Volume= 0.232 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 208.04' @ 13.34 hrs Surf.Area= 7,441 sf Storage= 8,938 cf

Plug-Flow detention time= 604.6 min calculated for 0.232 af (75% of inflow)
 Center-of-Mass det. time= 513.2 min (1,292.3 - 779.1)

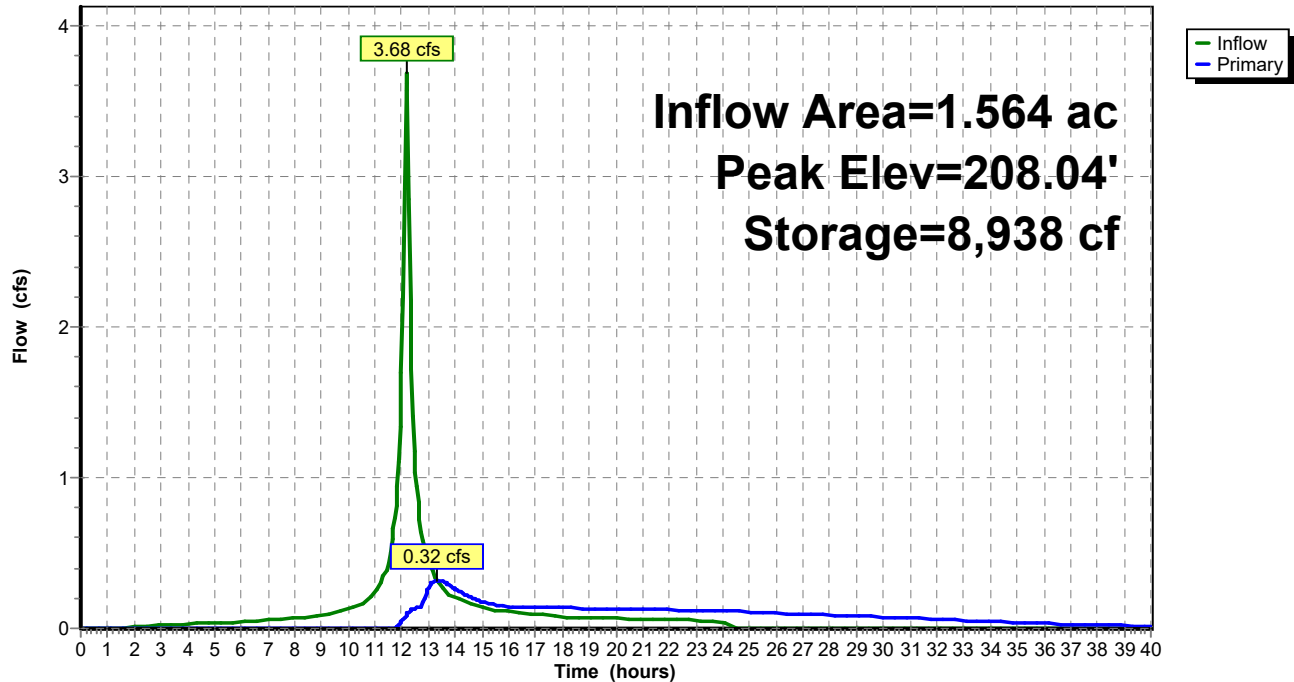
Volume	Invert	Avail.Storage	Storage Description
#1	206.47'	35,530 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

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

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

Primary OutFlow Max=0.31 cfs @ 13.34 hrs HW=208.04' (Free Discharge)

1=Culvert (Passes 0.31 cfs of 6.62 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.14 cfs @ 4.23 fps)
 3=Sharp-Crested Rectangular Weir (Weir Controls 0.17 cfs @ 0.76 fps)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Summary for Pond B-8: Basin #8

Inflow Area = 2.090 ac, 23.06% Impervious, Inflow Depth = 1.59" for Current 2 yr event
 Inflow = 3.41 cfs @ 12.18 hrs, Volume= 0.278 af
 Outflow = 0.10 cfs @ 17.38 hrs, Volume= 0.178 af, Atten= 97%, Lag= 311.9 min
 Primary = 0.10 cfs @ 17.38 hrs, Volume= 0.178 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 179.64' @ 17.38 hrs Surf.Area= 13,912 sf Storage= 8,637 cf

Plug-Flow detention time= 754.3 min calculated for 0.178 af (64% of inflow)
 Center-of-Mass det. time= 638.9 min (1,457.5 - 818.6)

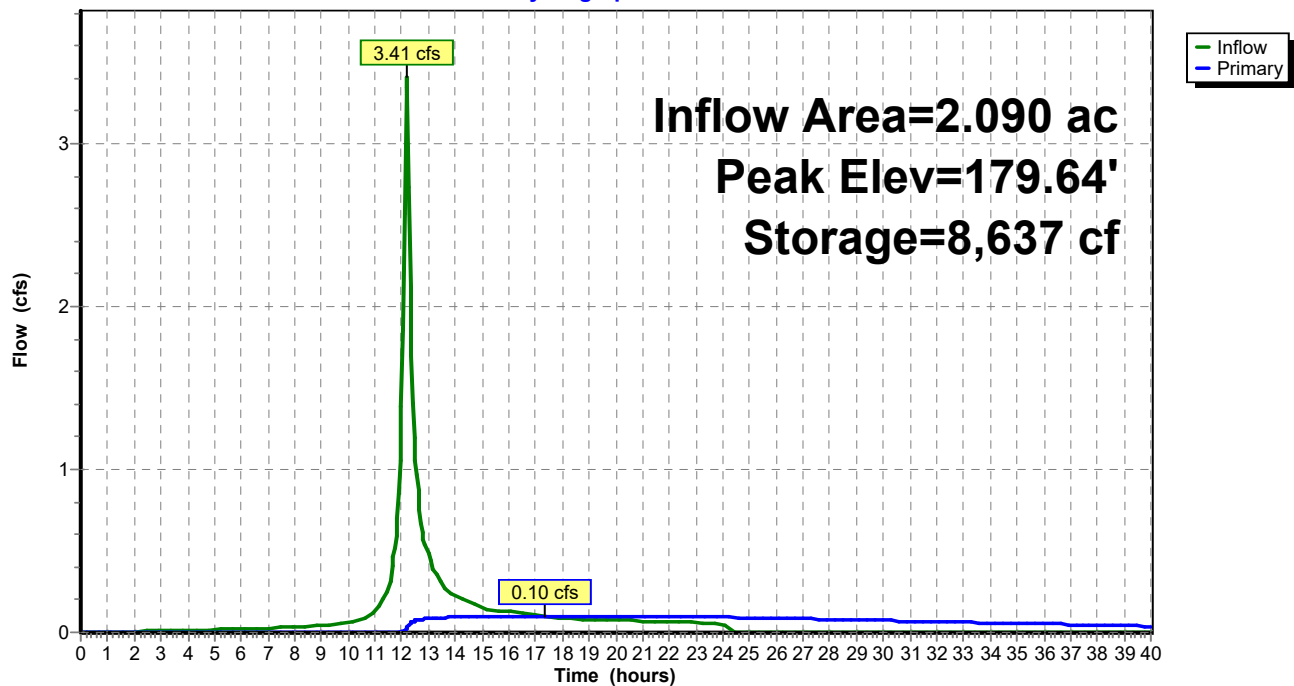
Volume	Invert	Avail.Storage	Storage Description
#1	179.00'	44,379 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

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

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

Primary OutFlow Max=0.10 cfs @ 17.38 hrs HW=179.64' (Free Discharge)

1=Culvert (Passes 0.10 cfs of 5.51 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.10 cfs @ 2.89 fps)
 3=Sharp-Crested Rectangular Weir(Controls 0.00 cfs)
 4=Broad-Crested Rectangular Weir(Controls 0.00 cfs)

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

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

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

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

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

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

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

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

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

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

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

Summary for Pond B-9: Basin #9

Inflow Area = 1.503 ac, 52.63% Impervious, Inflow Depth = 2.18" for Current 2 yr event
 Inflow = 3.26 cfs @ 12.17 hrs, Volume= 0.273 af
 Outflow = 0.10 cfs @ 16.15 hrs, Volume= 0.168 af, Atten= 97%, Lag= 238.9 min
 Primary = 0.10 cfs @ 16.15 hrs, Volume= 0.168 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 179.78' @ 16.15 hrs Surf.Area= 11,489 sf Storage= 8,709 cf

Plug-Flow detention time= 737.7 min calculated for 0.168 af (61% of inflow)
 Center-of-Mass det. time= 623.8 min (1,410.4 - 786.5)

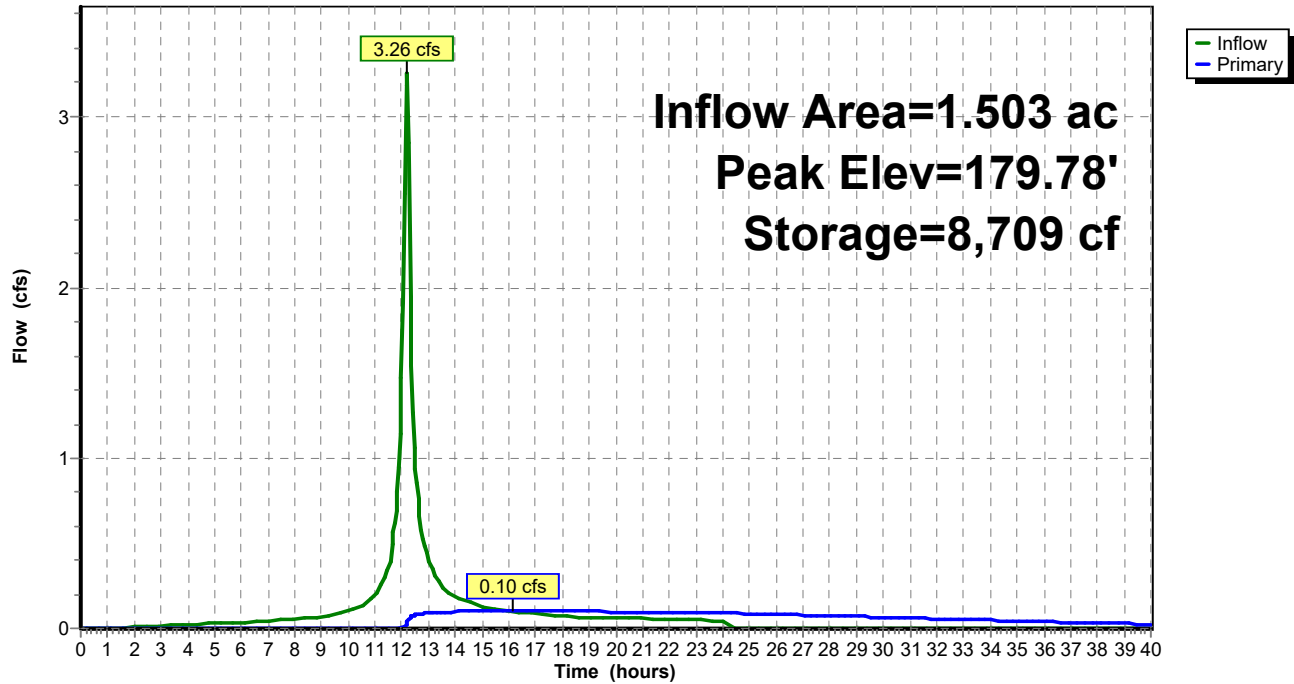
Volume	Invert	Avail.Storage	Storage Description
#1	179.00'	36,641 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

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

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

Primary OutFlow Max=0.10 cfs @ 16.15 hrs HW=179.78' (Free Discharge)

1=Culvert (Passes 0.10 cfs of 6.36 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.10 cfs @ 2.97 fps)
 3=Sharp-Crested Rectangular Weir(Controls 0.00 cfs)
 4=Broad-Crested Rectangular Weir(Controls 0.00 cfs)

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

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

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

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

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

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

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

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

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

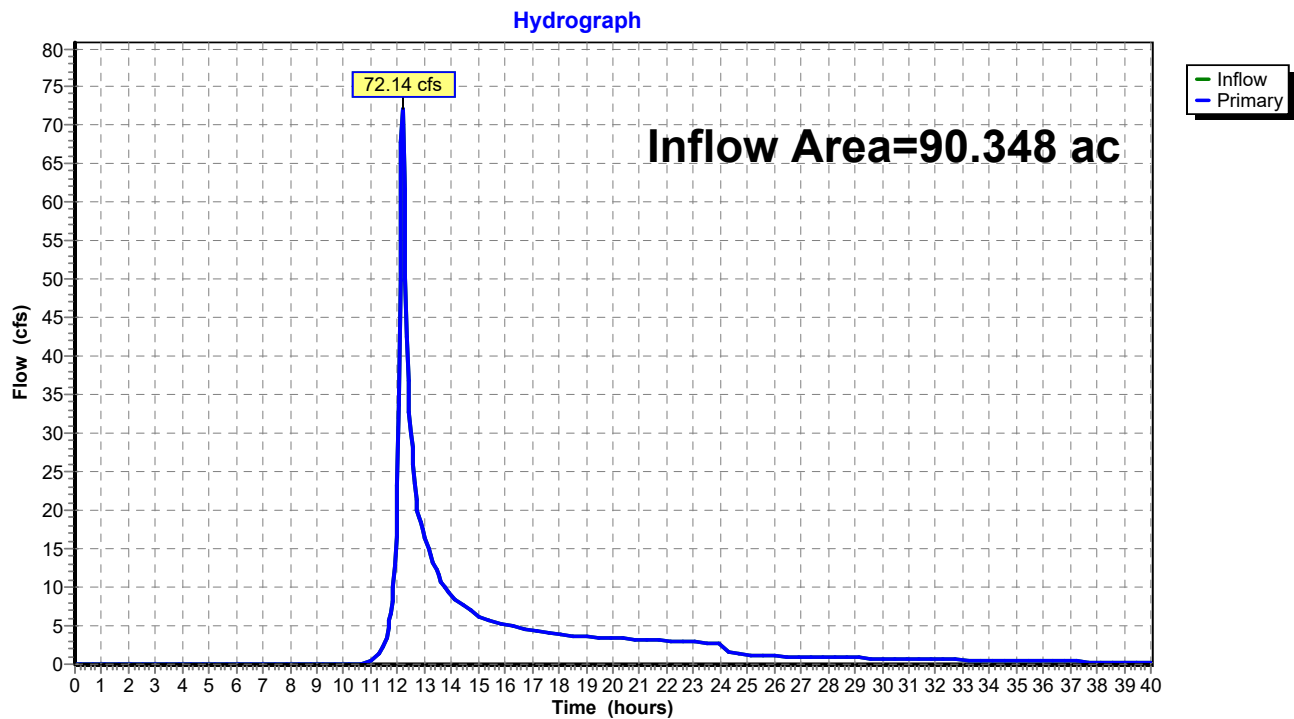
Stage-Area-Storage for Pond B-9: Basin #9 (continued)

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

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

Inflow Area = 90.348 ac, 16.68% Impervious, Inflow Depth > 1.14" for Current 2 yr event
Inflow = 72.14 cfs @ 12.19 hrs, Volume= 8.604 af
Primary = 72.14 cfs @ 12.19 hrs, Volume= 8.604 af, Atten= 0%, Lag= 0.0 min

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

Link PDA-1: Proposed Drainage Area #1

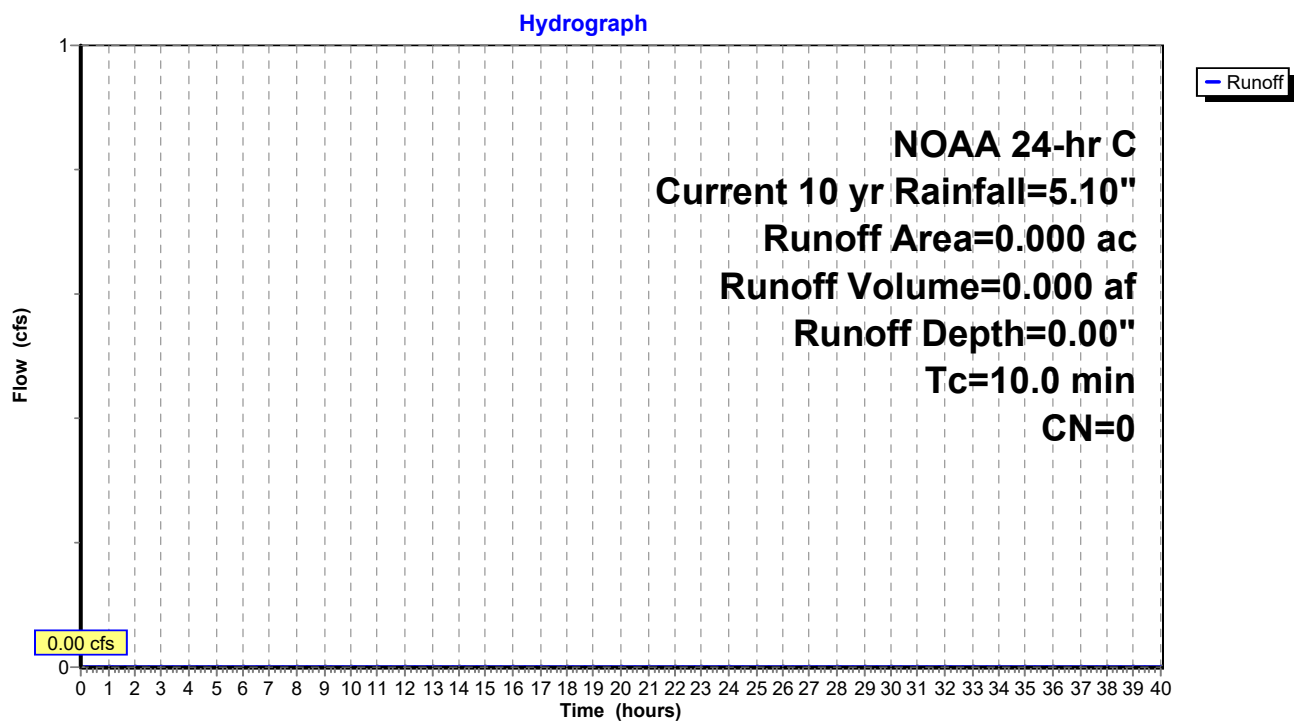
Summary for Subcatchment 1I: PDA-1 (impervious)

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

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

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

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

Subcatchment 1I: PDA-1 (impervious)

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

Runoff = 2.40 cfs @ 12.18 hrs, Volume= 0.181 af, Depth= 2.44"
 Routed to Pond B-1 : Basin #1

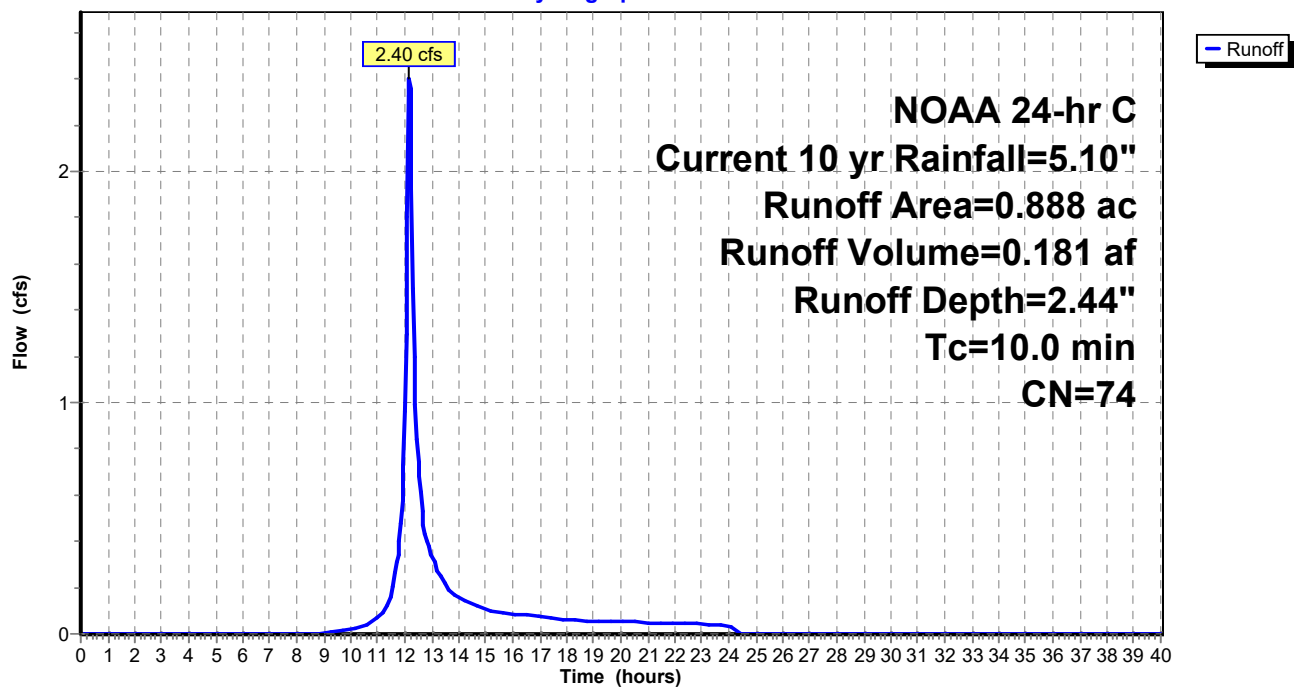
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

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

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

Subcatchment 1P: PDA-1 (pervious)

Hydrograph



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

Runoff = 3.36 cfs @ 12.17 hrs, Volume= 0.293 af, Depth= 4.86"
 Routed to Pond B-2 : Basin #2

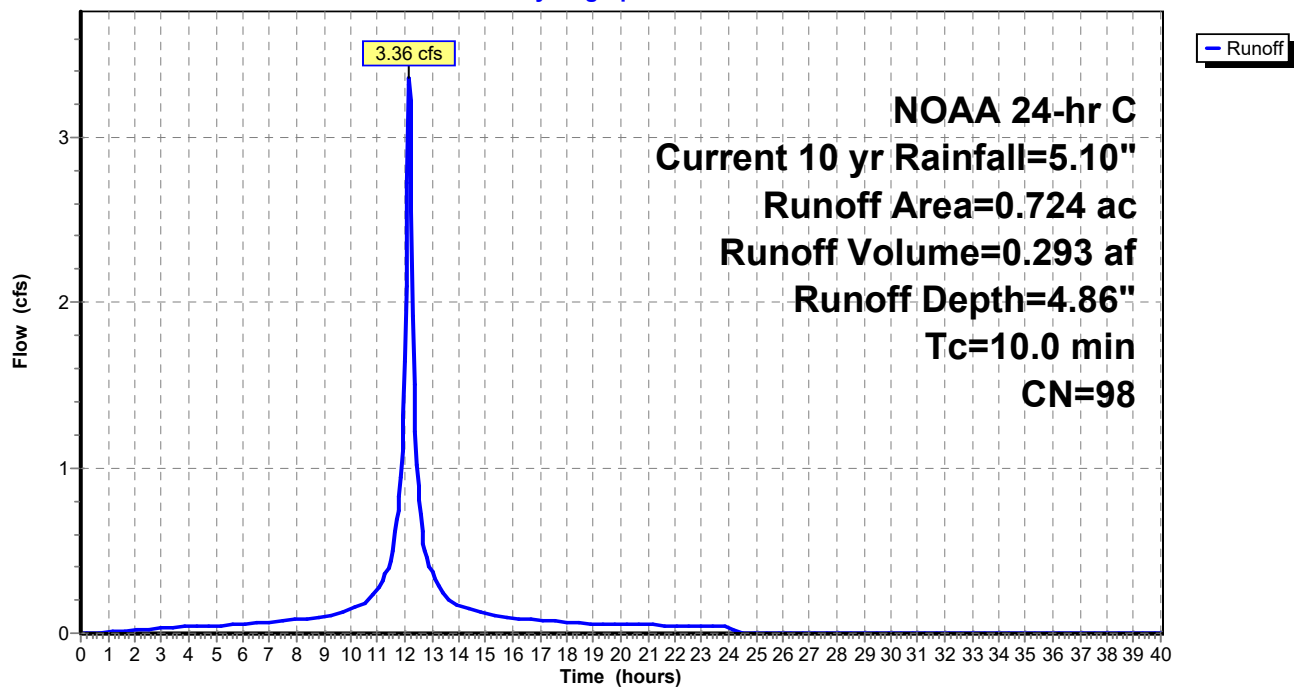
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

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

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

Subcatchment 2I: PDA-2 (impervious)

Hydrograph



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

Runoff = 3.16 cfs @ 12.18 hrs, Volume= 0.238 af, Depth= 2.44"
 Routed to Pond B-2 : Basin #2

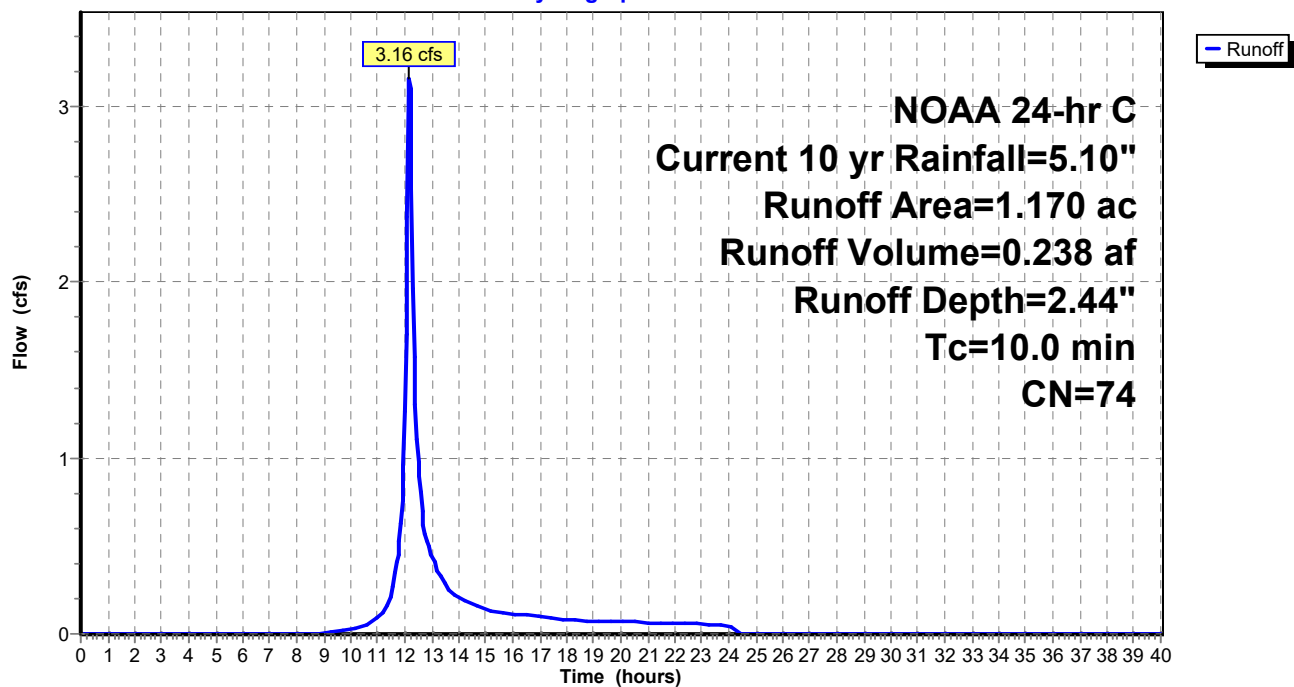
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

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

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

Subcatchment 2P: PDA-2 (pervious)

Hydrograph



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

Runoff = 2.77 cfs @ 12.17 hrs, Volume= 0.242 af, Depth= 4.86"
 Routed to Pond B-3 : Basin #3

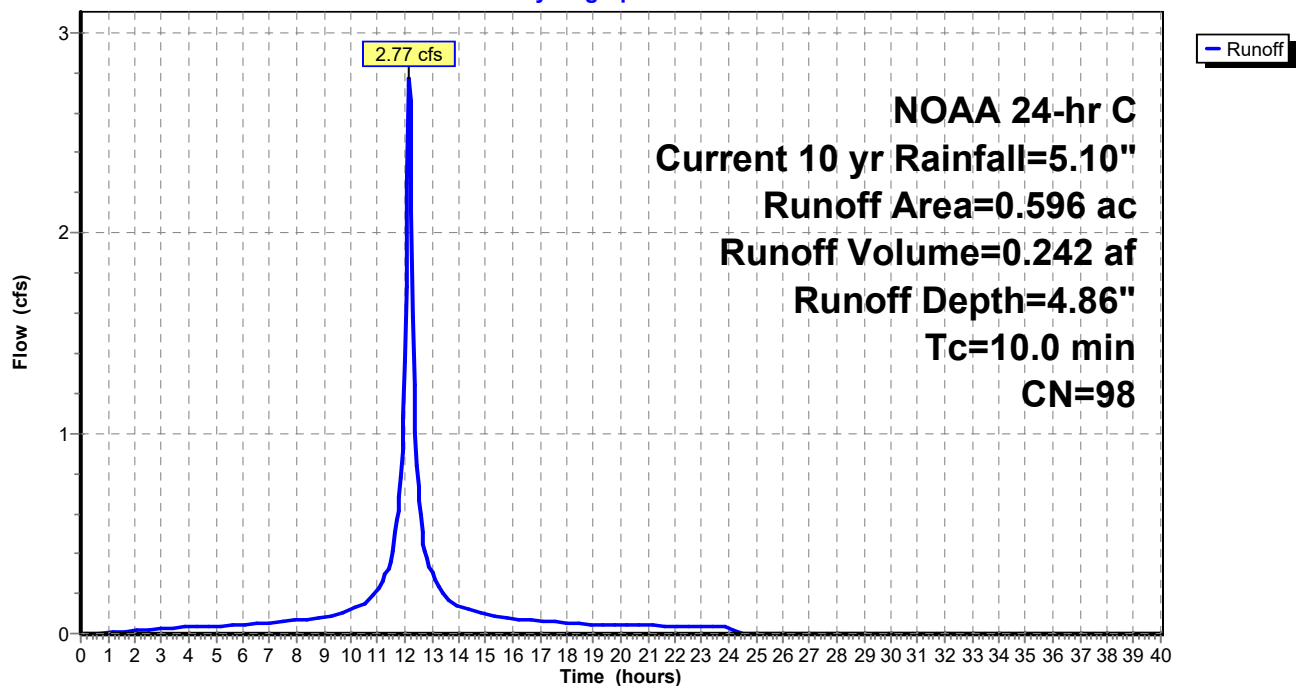
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

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

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

Subcatchment 3I: PDA-3 (impervious)

Hydrograph



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

Runoff = 2.59 cfs @ 12.18 hrs, Volume= 0.195 af, Depth= 2.44"
 Routed to Pond B-3 : Basin #3

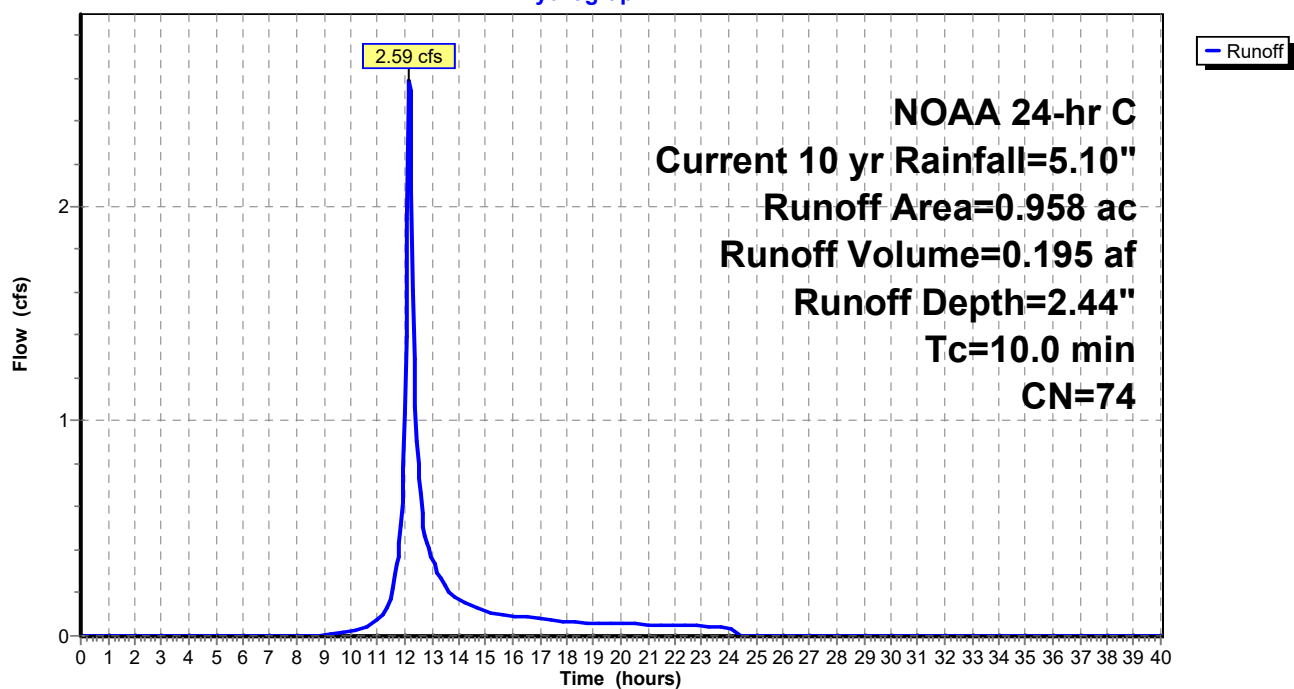
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

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

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

Subcatchment 3P: PDA-3 (pervious)

Hydrograph



Summary for Subcatchment 4A1: PDA-4A (impervious)

Runoff = 3.99 cfs @ 12.17 hrs, Volume= 0.349 af, Depth= 4.86"
 Routed to Pond B-4A : Basin #4A

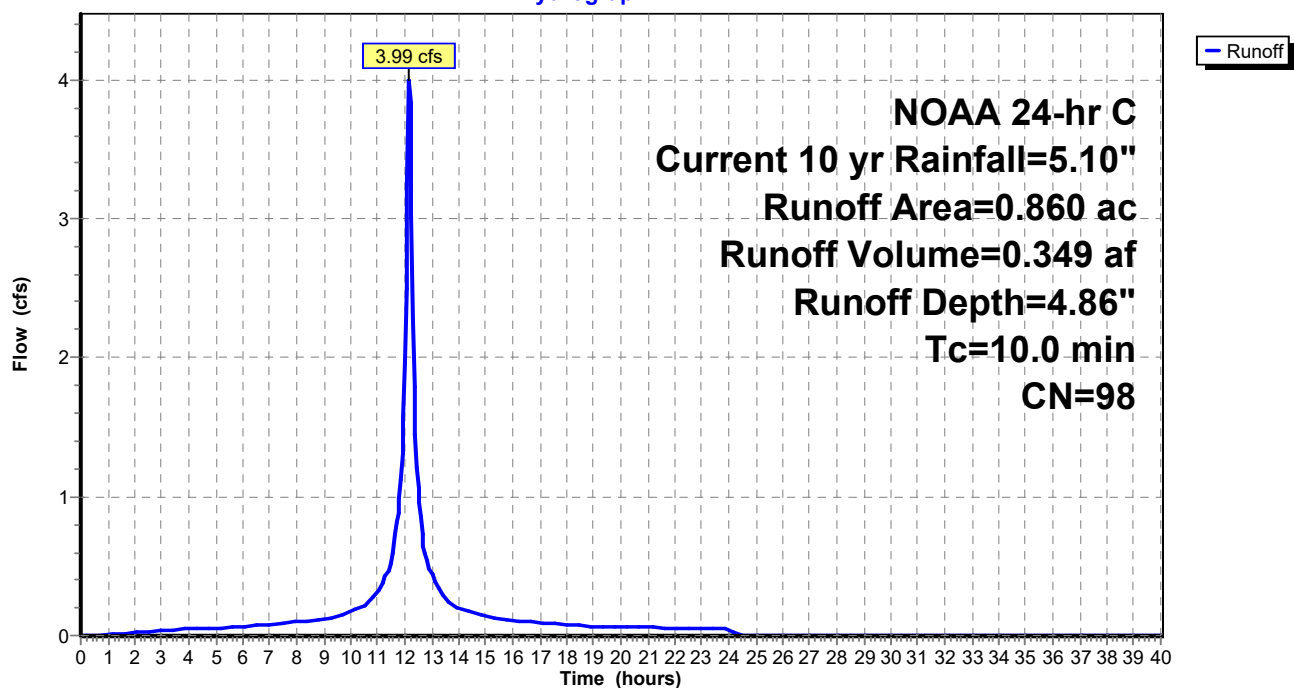
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

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

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

Subcatchment 4A1: PDA-4A (impervious)

Hydrograph



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

Runoff = 3.97 cfs @ 12.18 hrs, Volume= 0.300 af, Depth= 2.44"
 Routed to Pond B-4A : Basin #4A

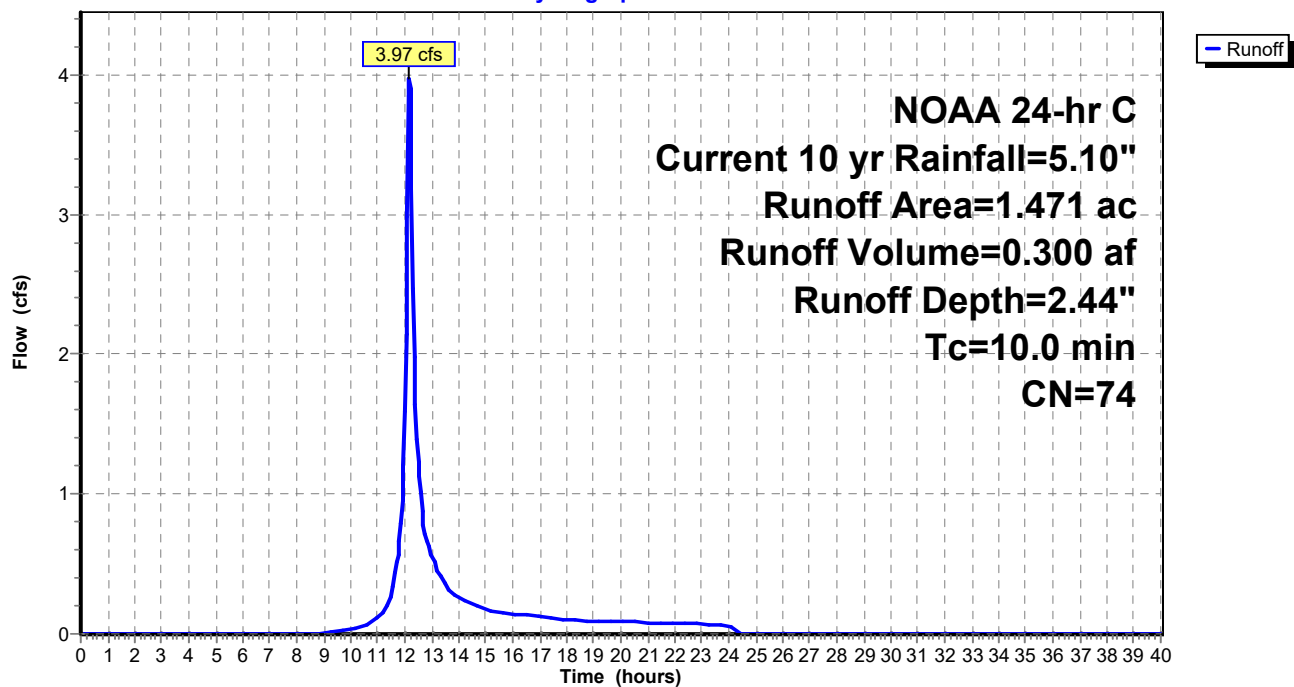
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

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

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

Subcatchment 4AP: PDA-4A (pervious)

Hydrograph



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

Runoff = 3.99 cfs @ 12.17 hrs, Volume= 0.349 af, Depth= 4.86"
 Routed to Pond B-4B : Basin #4B

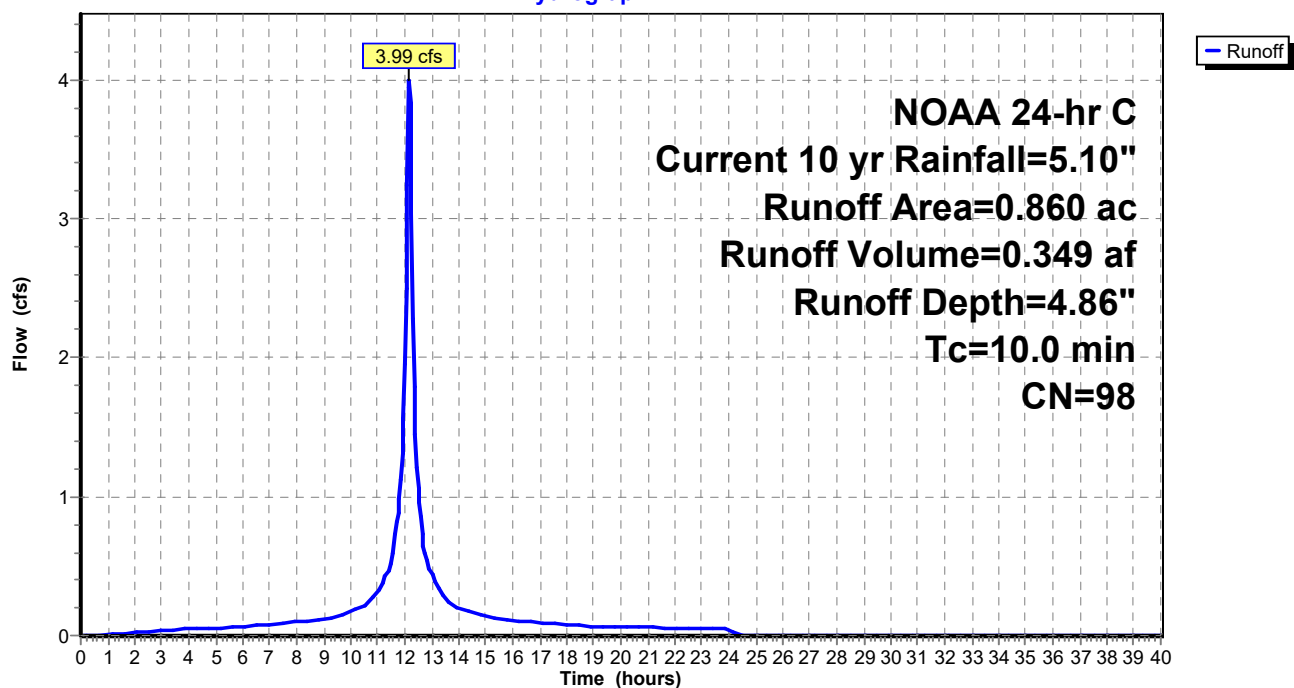
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

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

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

Subcatchment 4BI: PDA-4B (impervious)

Hydrograph



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

Runoff = 3.97 cfs @ 12.18 hrs, Volume= 0.300 af, Depth= 2.44"
Routed to Pond B-4B : Basin #4B

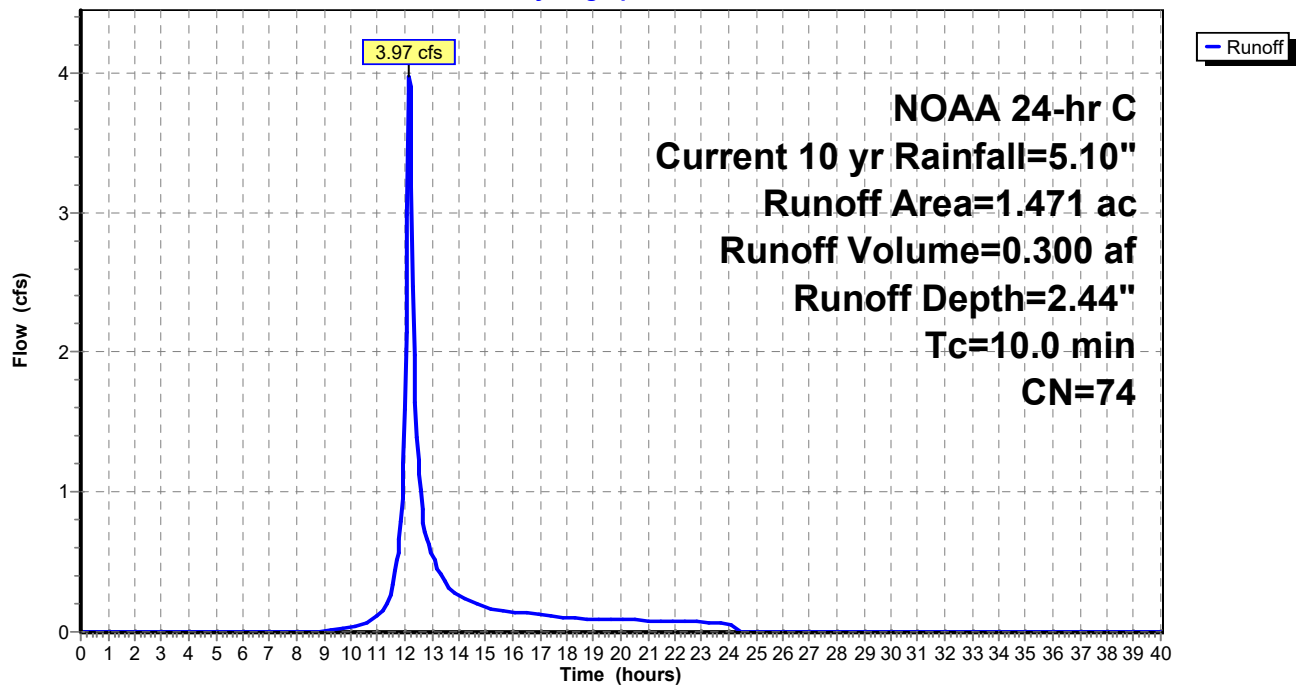
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
NOAA 24-hr C Current 10 yr Rainfall=5.10"

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

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

Subcatchment 4BP: PDA-4B (pervious)

Hydrograph



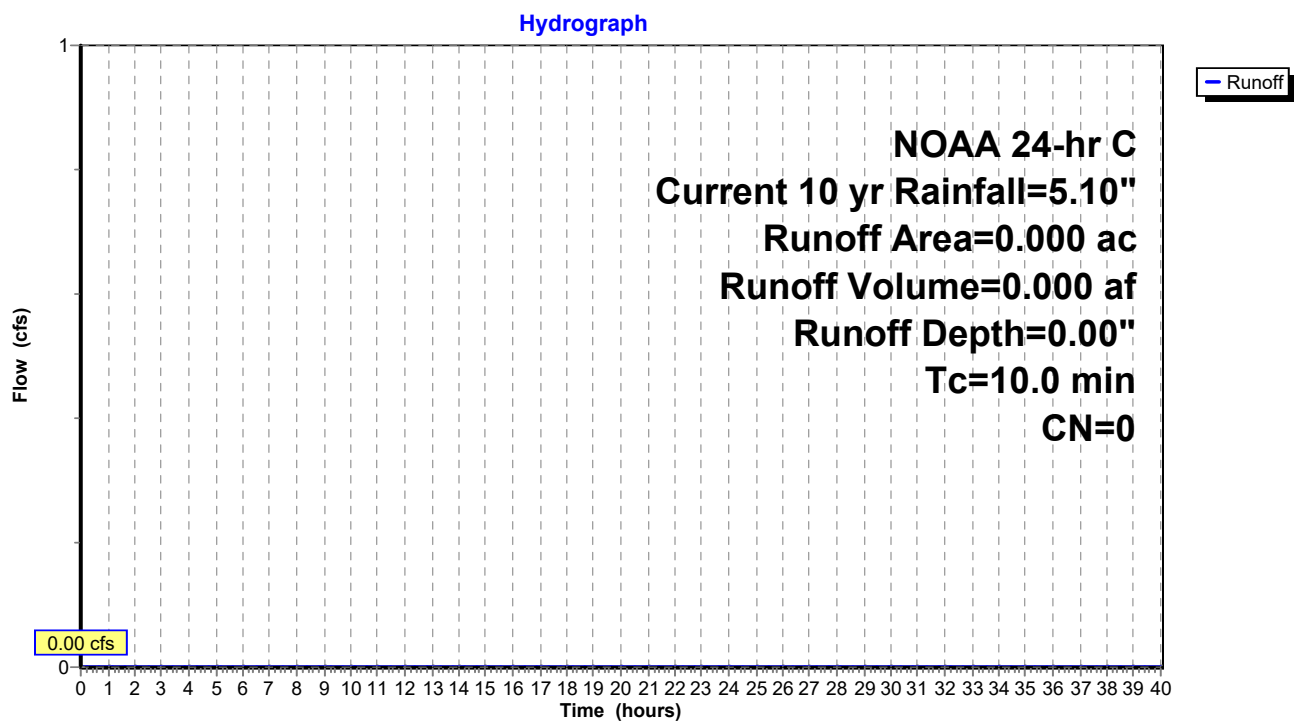
Summary for Subcatchment 5I: PDA-5 (impervious)

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

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

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

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

Subcatchment 5I: PDA-5 (impervious)

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

Runoff = 1.83 cfs @ 12.18 hrs, Volume= 0.138 af, Depth= 2.44"
 Routed to Pond B-5 : Basin #5

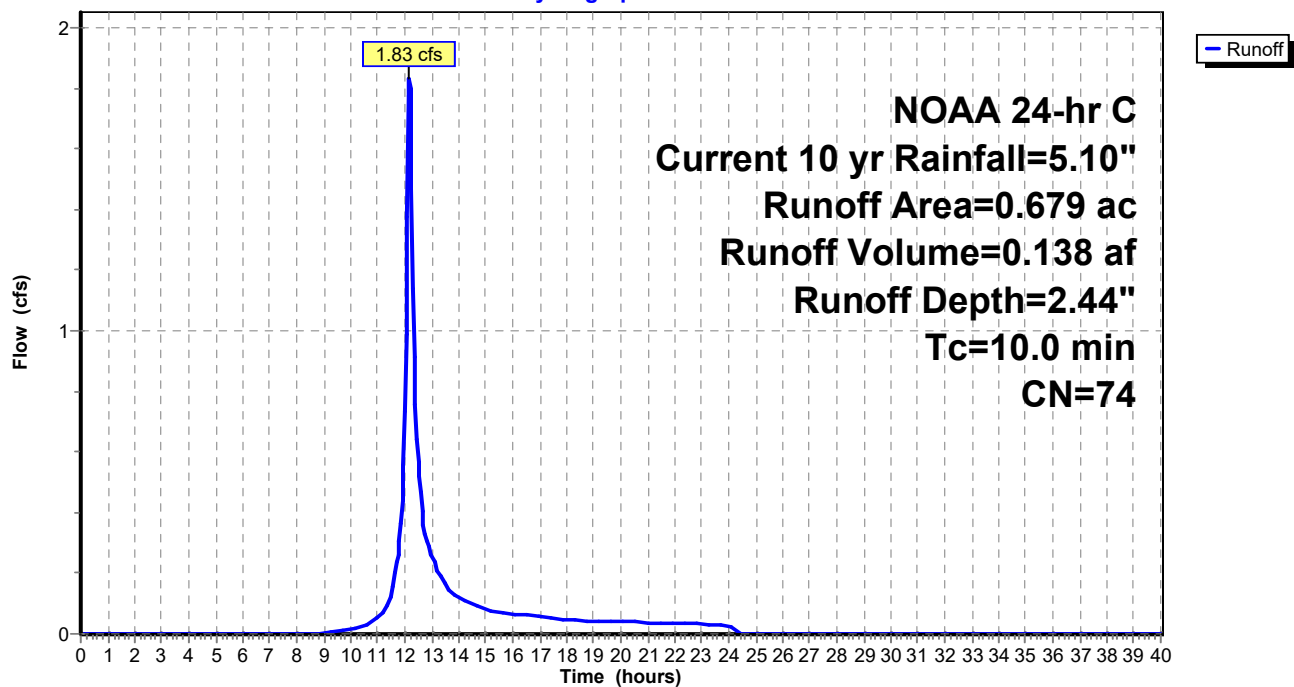
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

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

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

Subcatchment 5P: PDA-5 (pervious)

Hydrograph



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

Runoff = 3.22 cfs @ 12.17 hrs, Volume= 0.281 af, Depth= 4.86"
 Routed to Pond B-6 : Basin #6

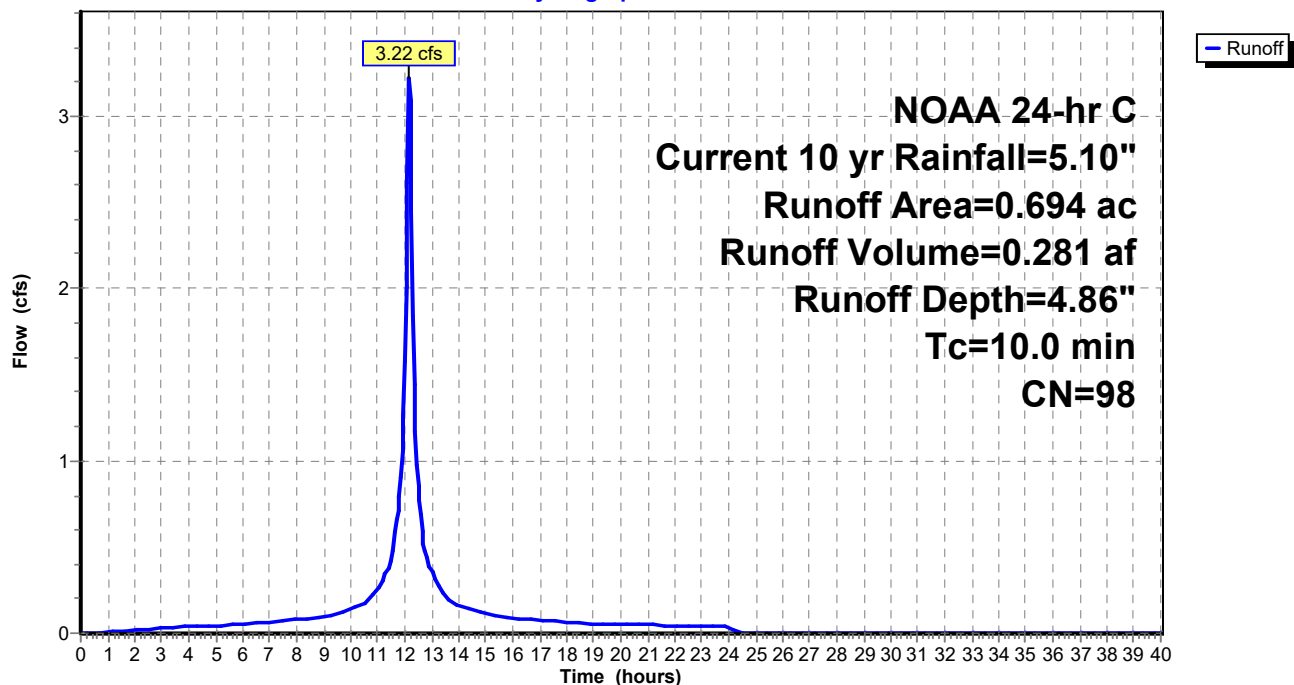
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

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

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

Subcatchment 6I: PDA-6 (impervious)

Hydrograph



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

Runoff = 1.34 cfs @ 12.18 hrs, Volume= 0.101 af, Depth= 2.44"
 Routed to Pond B-6 : Basin #6

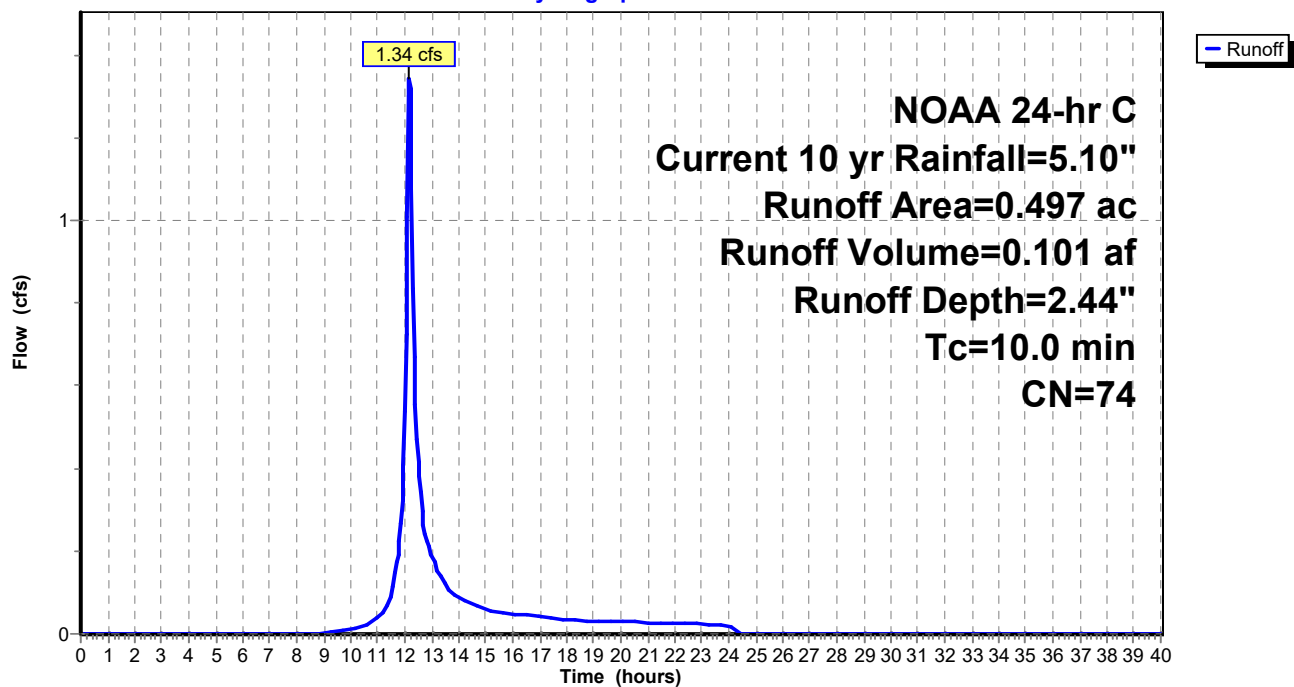
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

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

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

Subcatchment 6P: PDA-6 (pervious)

Hydrograph



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

Runoff = 4.57 cfs @ 12.17 hrs, Volume= 0.398 af, Depth= 4.86"
 Routed to Pond B-7 : Basin #7

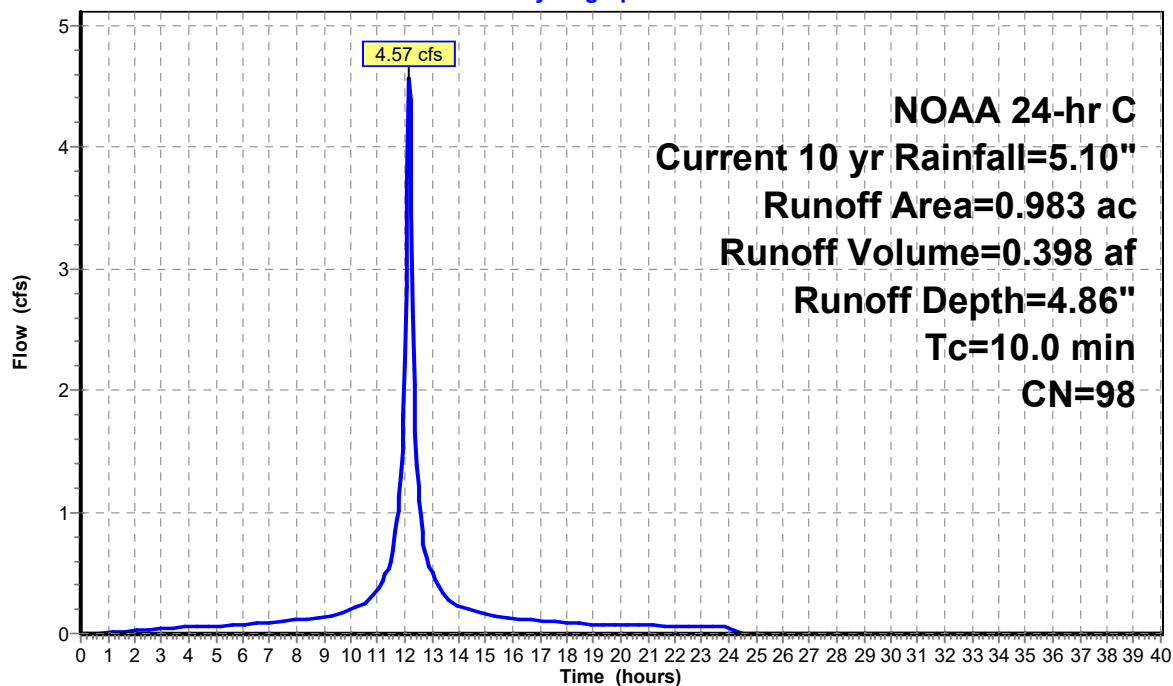
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

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

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

Subcatchment 7I: PDA-7 (impervious)

Hydrograph



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

Runoff = 1.57 cfs @ 12.18 hrs, Volume= 0.118 af, Depth= 2.44"
 Routed to Pond B-7 : Basin #7

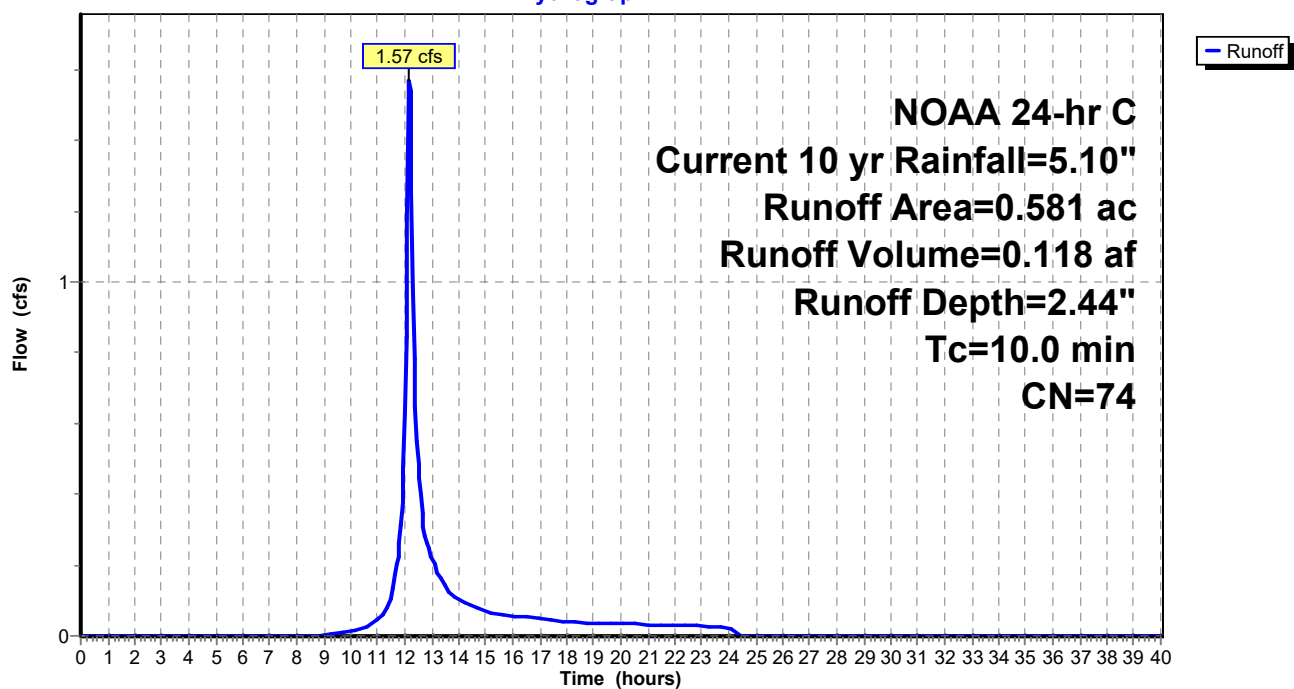
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

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

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

Subcatchment 7P: PDA-7 (pervious)

Hydrograph



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

Runoff = 2.24 cfs @ 12.17 hrs, Volume= 0.195 af, Depth= 4.86"
 Routed to Pond B-8 : Basin #8

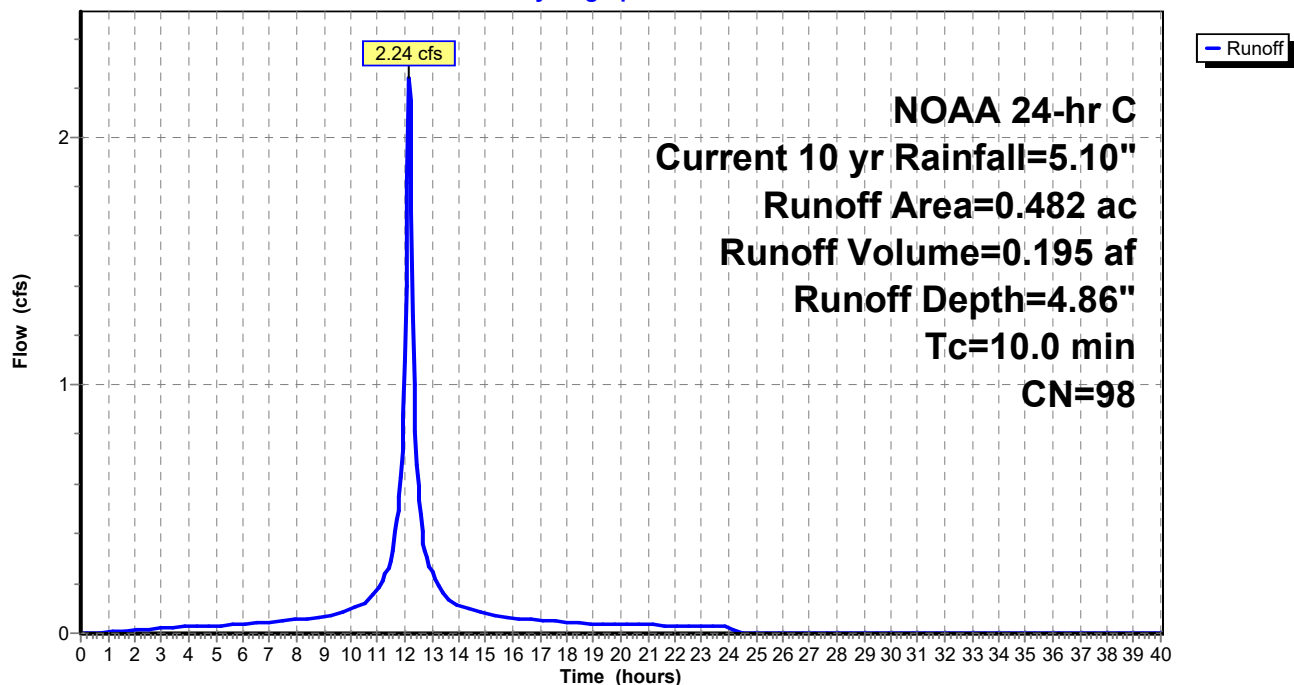
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

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

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

Subcatchment 8I: PDA-8 (impervious)

Hydrograph



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

Runoff = 4.34 cfs @ 12.18 hrs, Volume= 0.328 af, Depth= 2.44"
 Routed to Pond B-8 : Basin #8

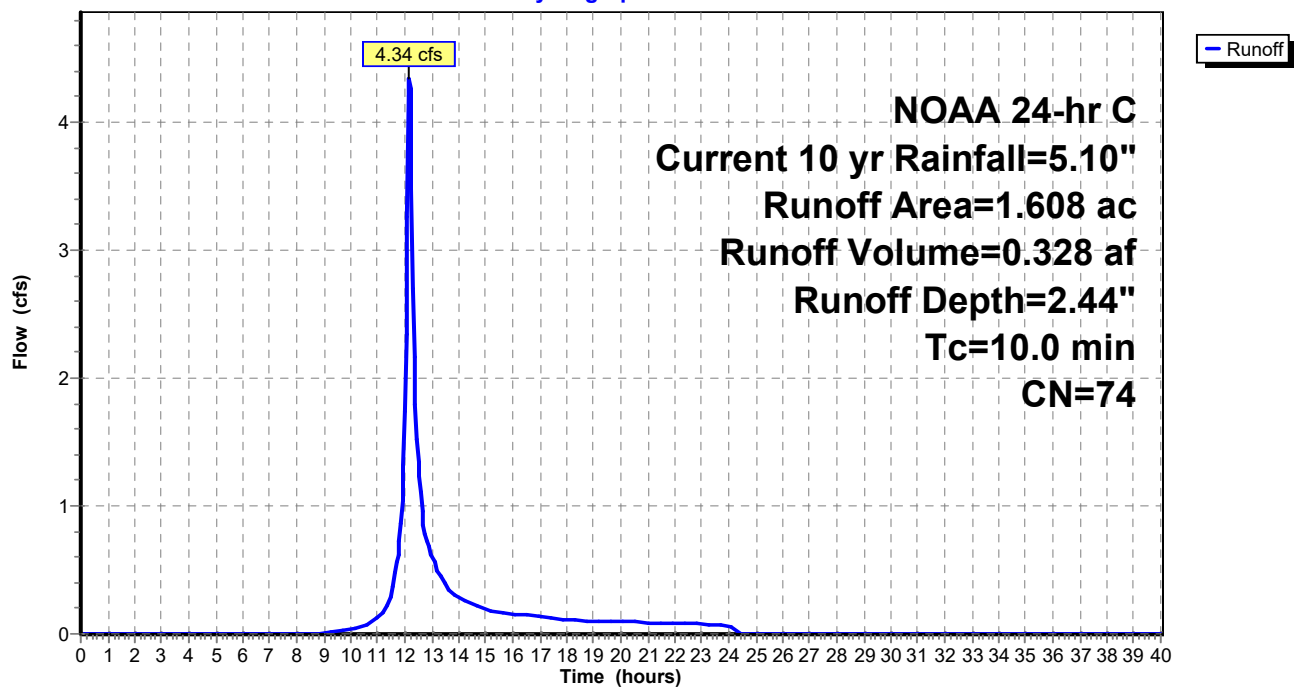
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

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

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

Subcatchment 8P: PDA-8 (pervious)

Hydrograph



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

Runoff = 3.67 cfs @ 12.17 hrs, Volume= 0.321 af, Depth= 4.86"
 Routed to Pond B-9 : Basin #9

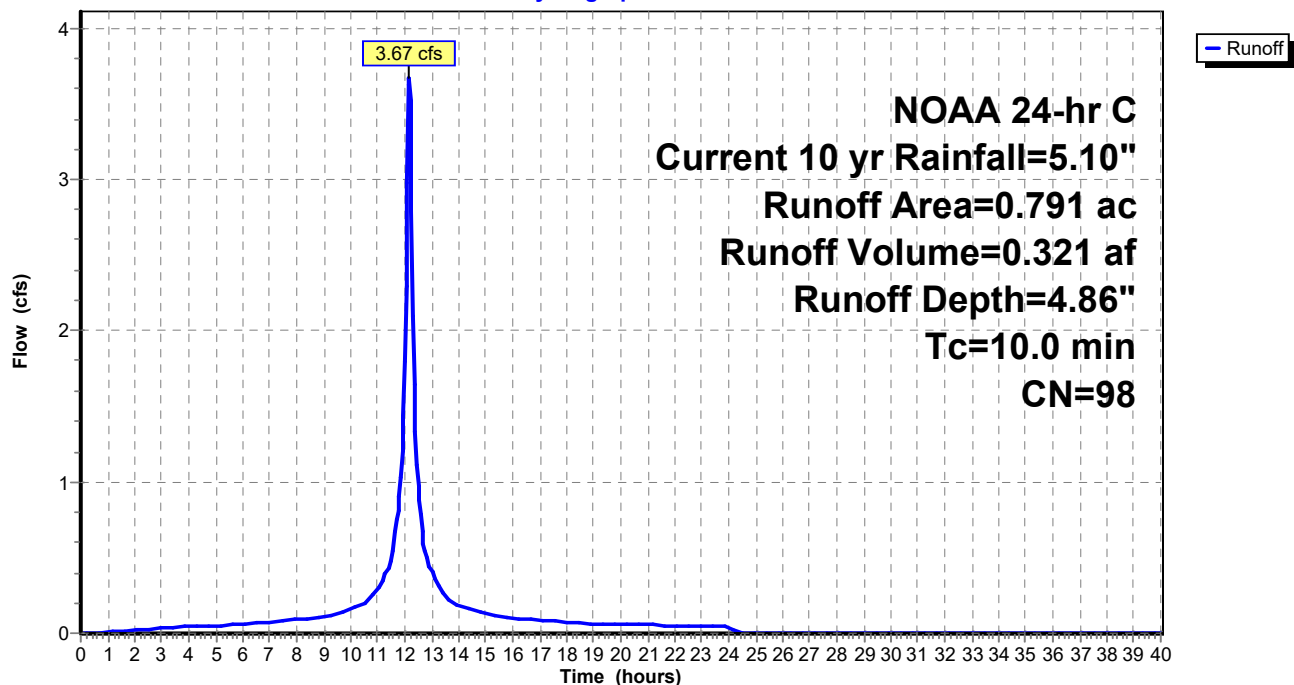
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

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

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

Subcatchment 9I: PDA-9 (impervious)

Hydrograph



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

Runoff = 1.92 cfs @ 12.18 hrs, Volume= 0.145 af, Depth= 2.44"
 Routed to Pond B-9 : Basin #9

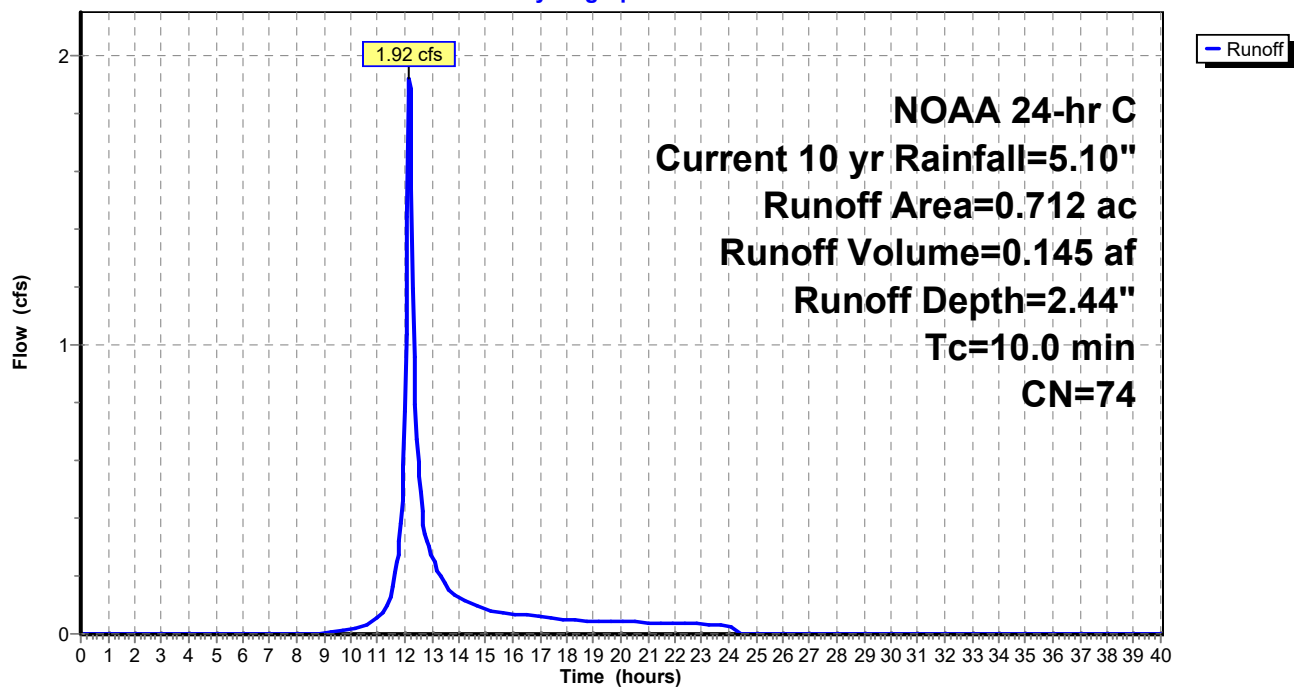
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

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

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

Subcatchment 9P: PDA-9 (pervious)

Hydrograph



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

Runoff = 4.40 cfs @ 12.17 hrs, Volume= 0.384 af, Depth= 4.86"
 Routed to Pond B-10 : Basin #10

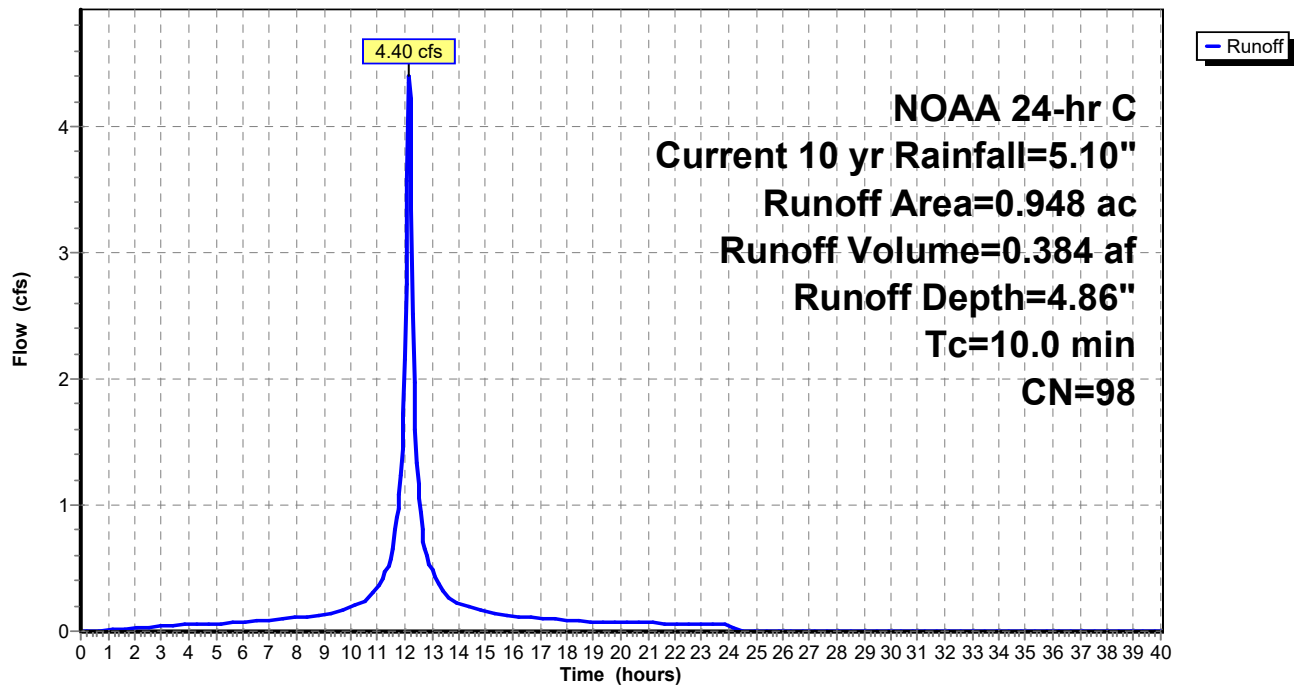
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

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

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

Subcatchment 10I: PDA-10 (impervious)

Hydrograph



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

Runoff = 1.96 cfs @ 12.18 hrs, Volume= 0.148 af, Depth= 2.44"
 Routed to Pond B-10 : Basin #10

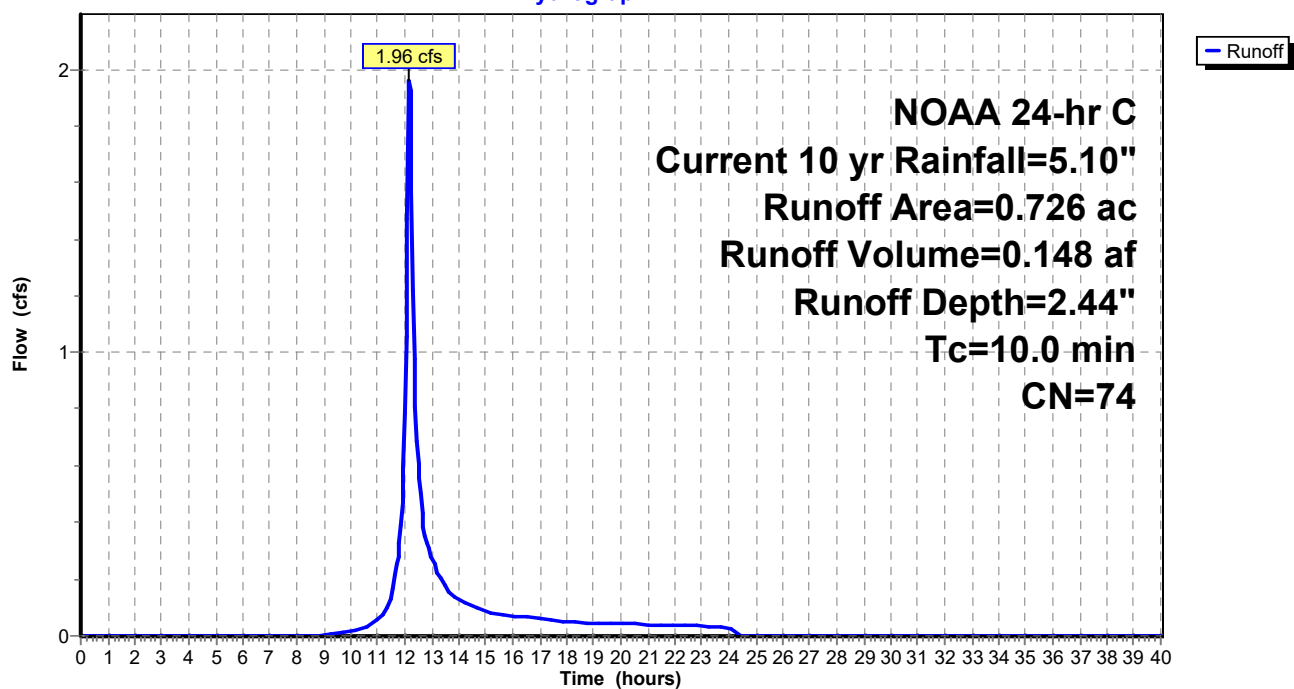
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

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

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

Subcatchment 10P: PDA-10 (pervious)

Hydrograph



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

Runoff = 6.06 cfs @ 12.17 hrs, Volume= 0.528 af, Depth= 4.86"
 Routed to Pond B-11 : Basin #11

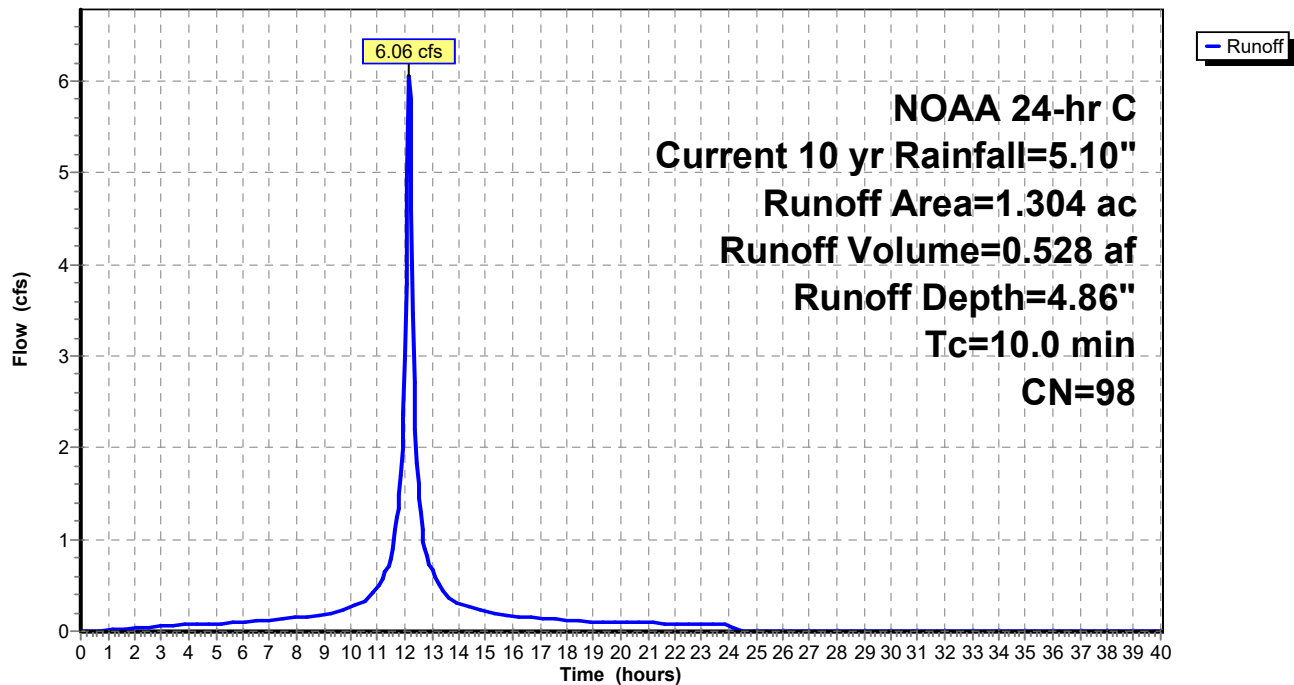
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

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

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

Subcatchment 11I: PDA-11 (impervious)

Hydrograph



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

Runoff = 2.50 cfs @ 12.18 hrs, Volume= 0.188 af, Depth= 2.44"
 Routed to Pond B-11 : Basin #11

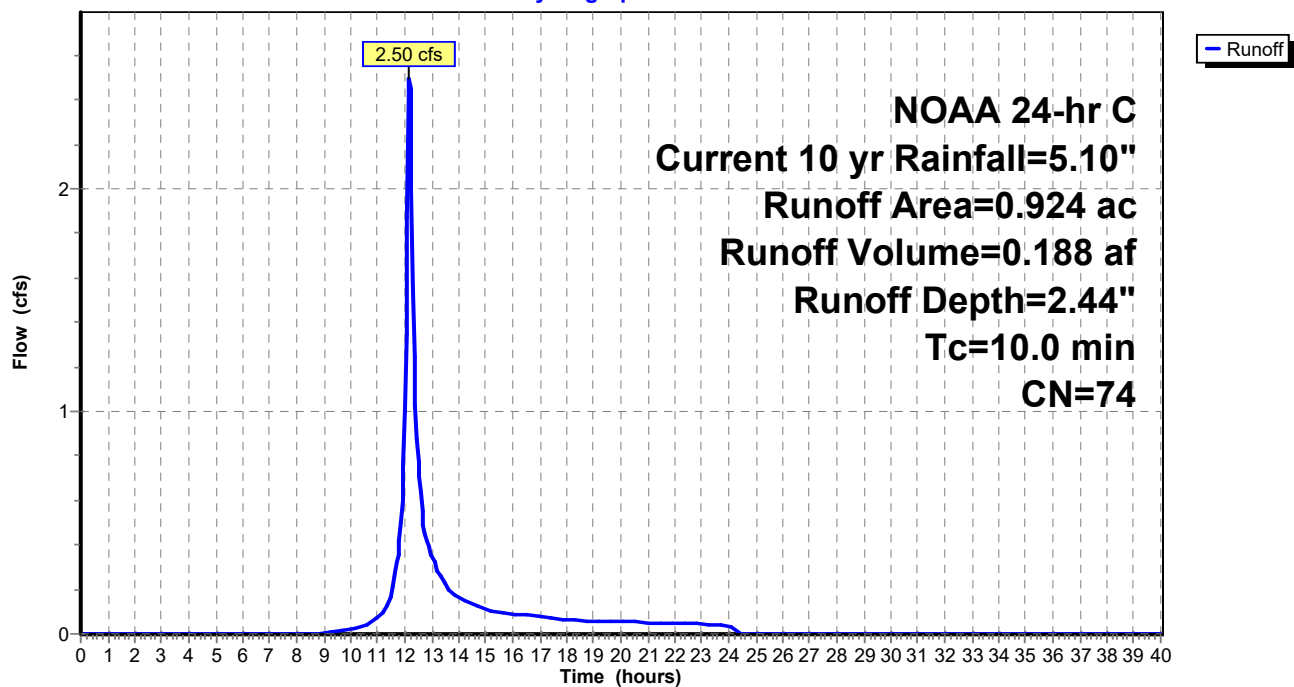
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

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

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

Subcatchment 11P: PDA-11 (pervious)

Hydrograph



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

Runoff = 5.04 cfs @ 12.17 hrs, Volume= 0.440 af, Depth= 4.86"
 Routed to Pond B-12 : Basin #12

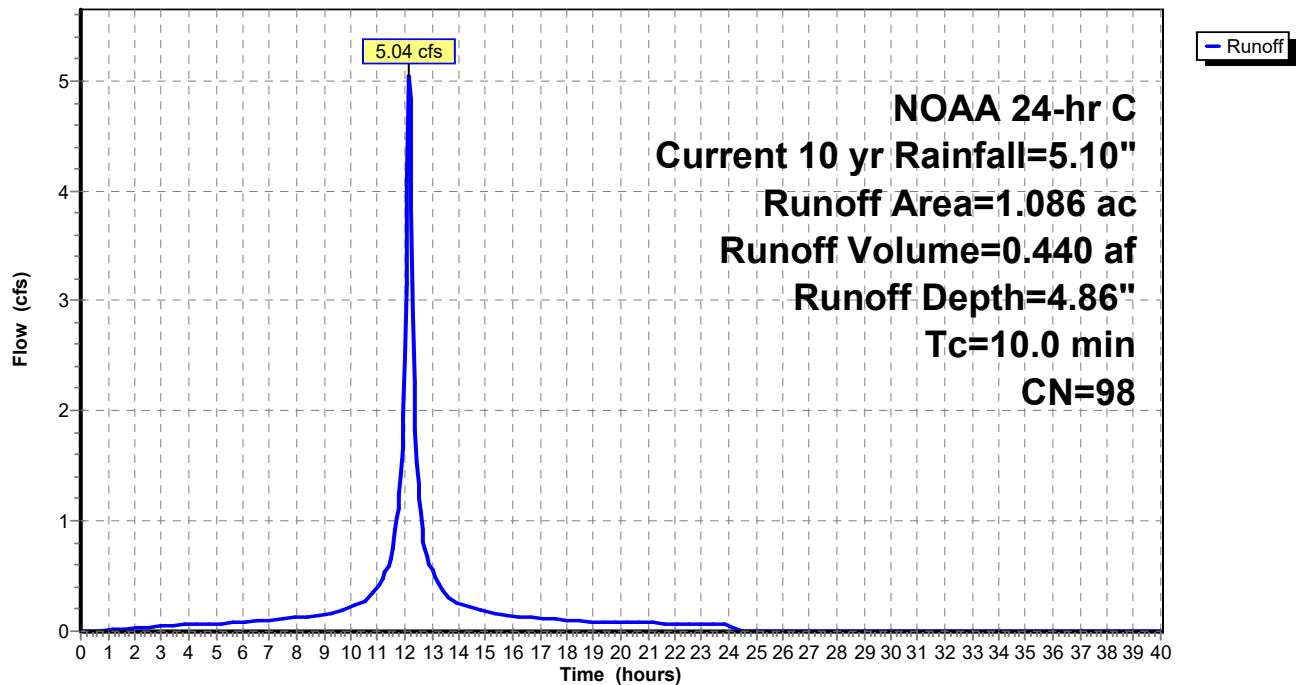
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

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

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

Subcatchment 12I: PDA-12 (impervious)

Hydrograph



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

Runoff = 3.62 cfs @ 12.18 hrs, Volume= 0.273 af, Depth= 2.44"
 Routed to Pond B-12 : Basin #12

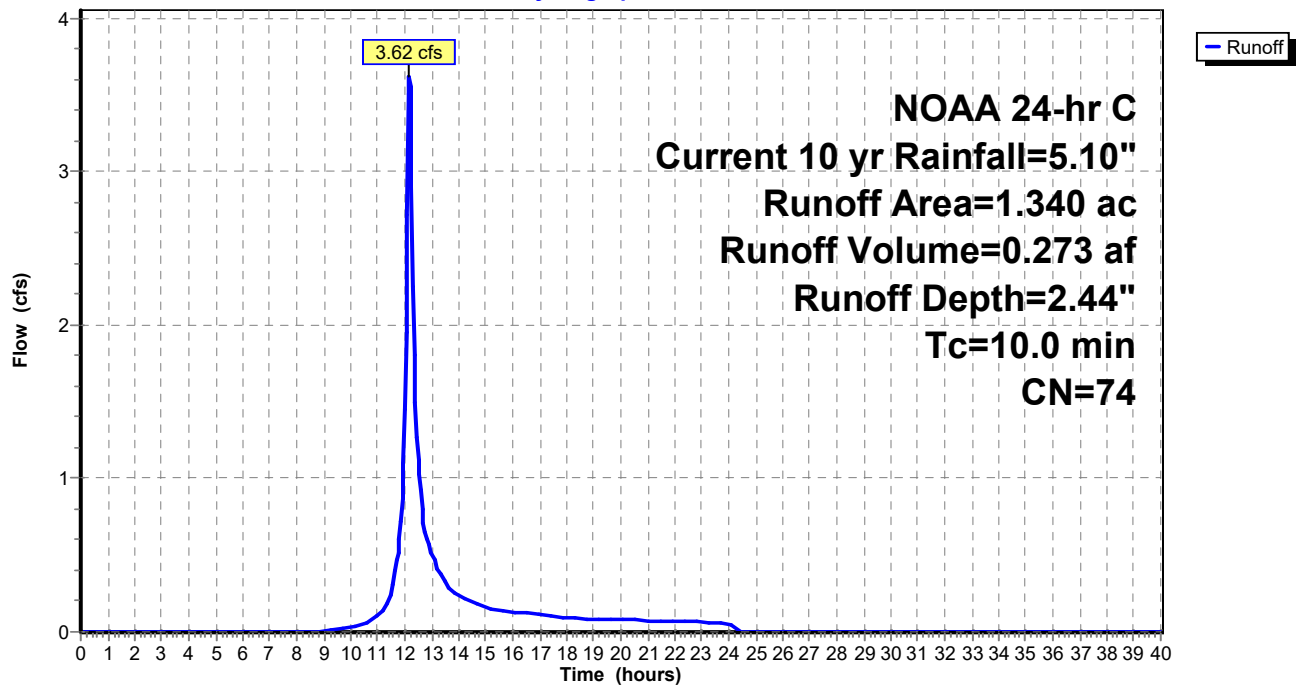
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

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

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

Subcatchment 12P: PDA-12 (pervious)

Hydrograph



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

Runoff = 6.81 cfs @ 12.17 hrs, Volume= 0.595 af, Depth= 4.86"
 Routed to Pond B-13 : Basin #13

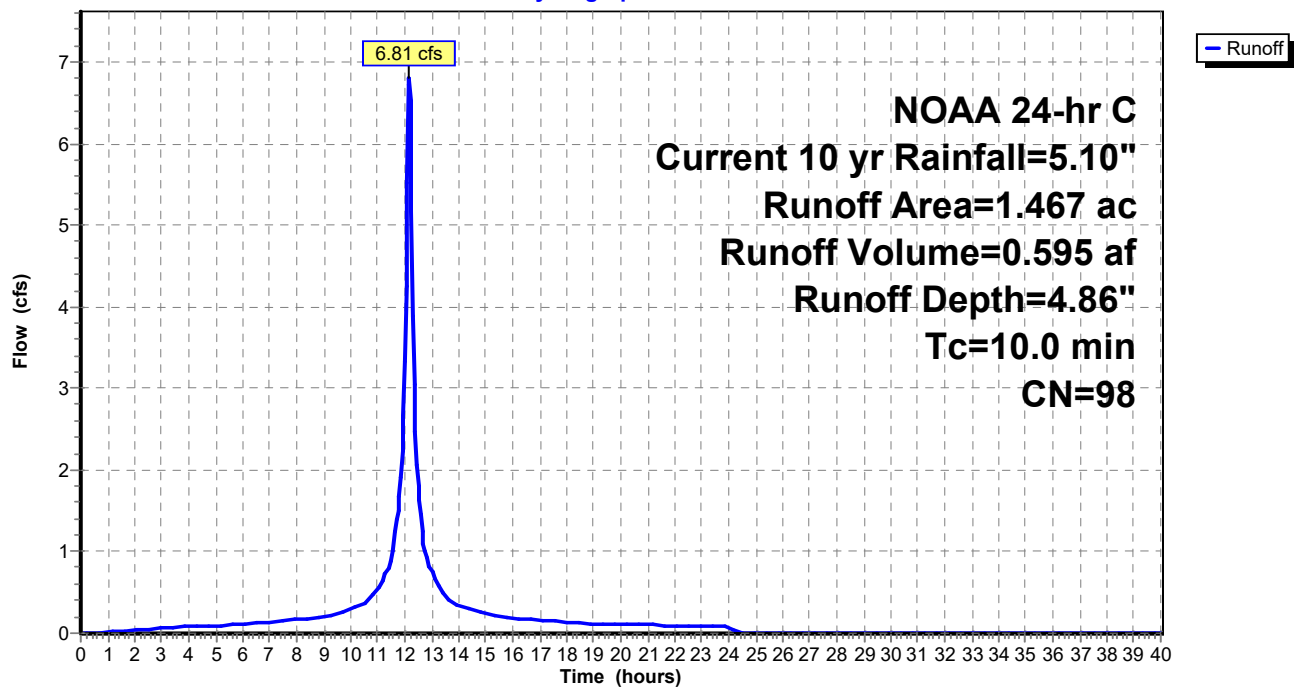
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

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

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

Subcatchment 13I: PDA-13 (impervious)

Hydrograph



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

Runoff = 2.38 cfs @ 12.18 hrs, Volume= 0.180 af, Depth= 2.44"
 Routed to Pond B-13 : Basin #13

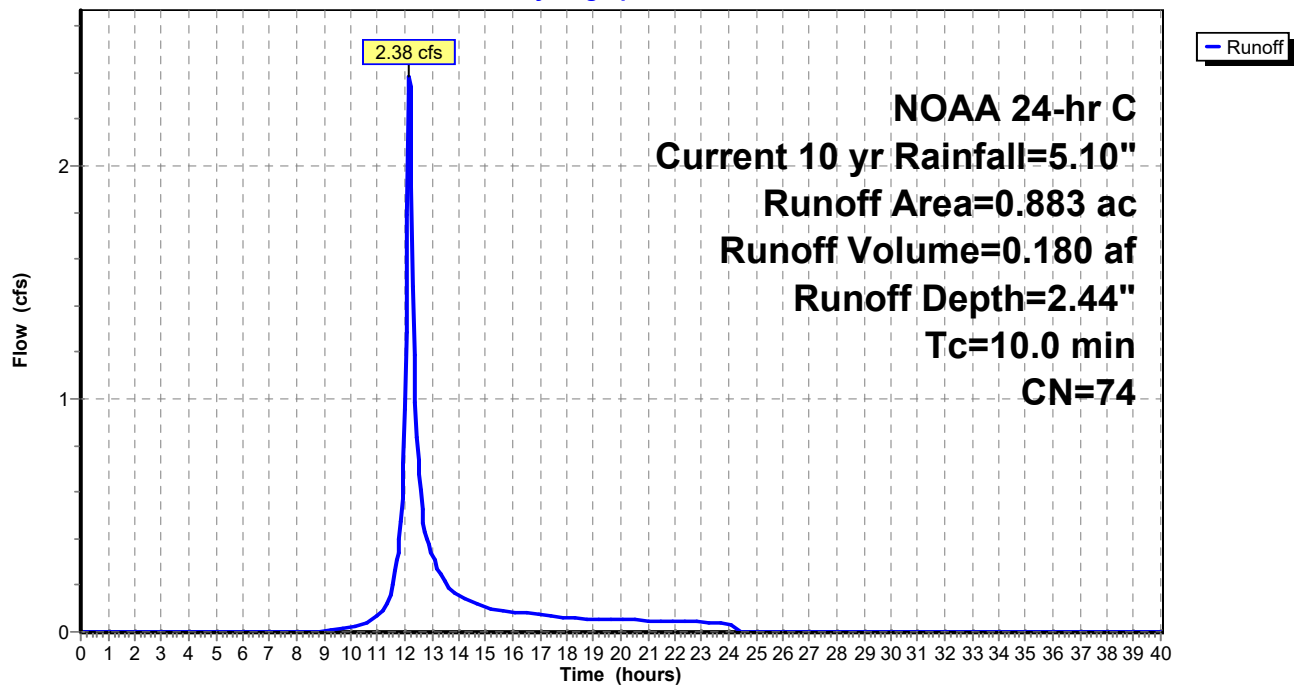
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

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

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

Subcatchment 13P: PDA-13 (pervious)

Hydrograph



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

Runoff = 2.36 cfs @ 12.17 hrs, Volume= 0.206 af, Depth= 4.86"
 Routed to Pond B-14 : Basin #14

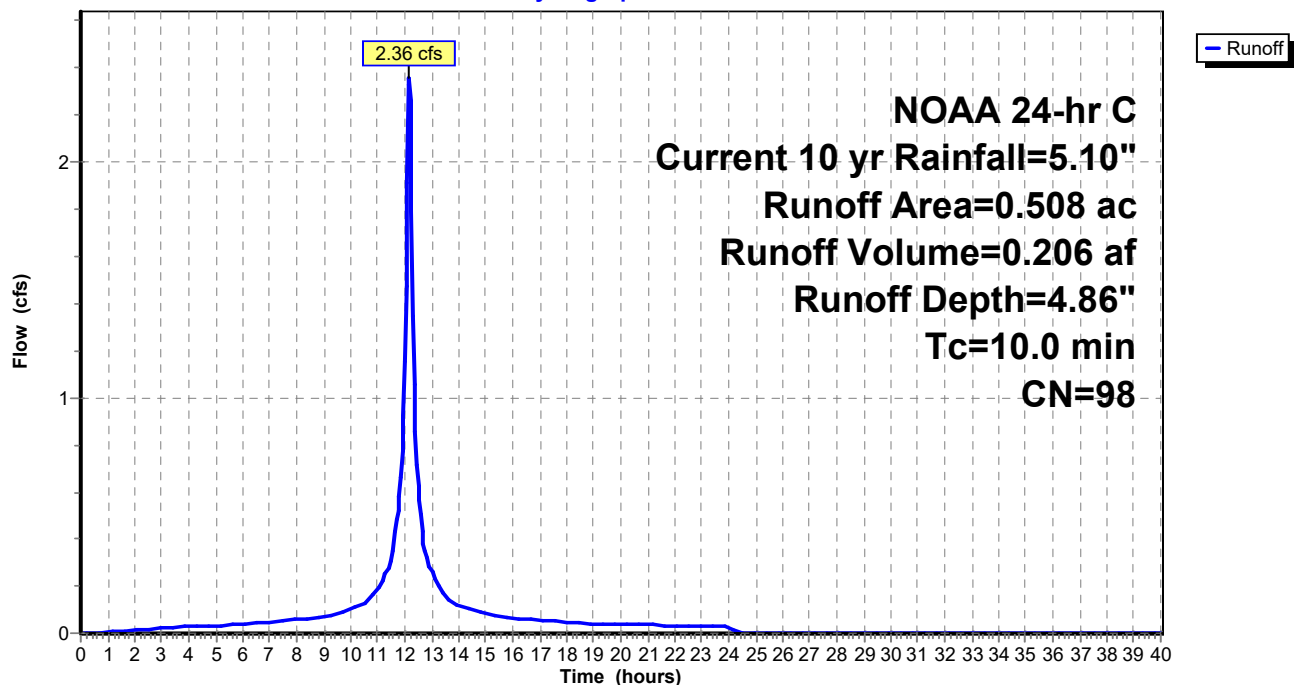
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

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

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

Subcatchment 14I: PDA-14 (impervious)

Hydrograph



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

Runoff = 4.43 cfs @ 12.18 hrs, Volume= 0.334 af, Depth= 2.44"
 Routed to Pond B-14 : Basin #14

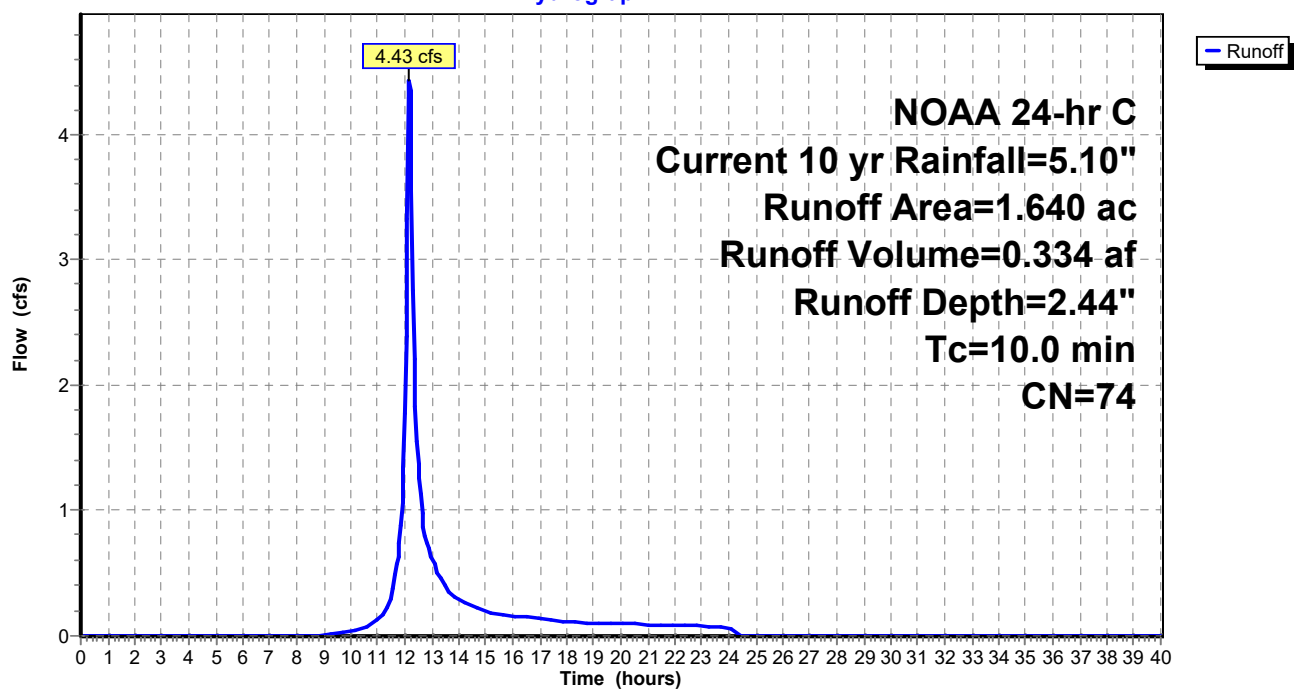
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

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

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

Subcatchment 14P: PDA-14 (pervious)

Hydrograph



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

Runoff = 6.45 cfs @ 12.17 hrs, Volume= 0.563 af, Depth= 4.86"
 Routed to Pond B-15 : Basin #15

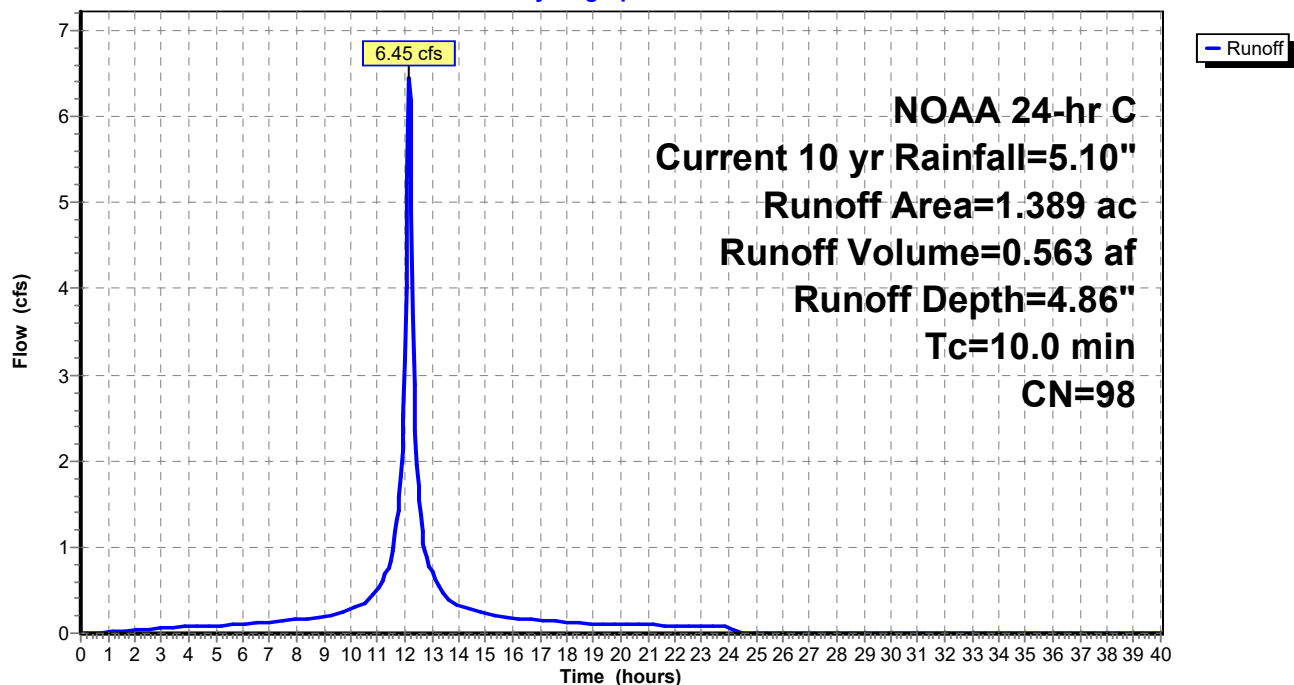
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

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

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

Subcatchment 15I: PDA-15 (impervious)

Hydrograph



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

Runoff = 2.64 cfs @ 12.18 hrs, Volume= 0.199 af, Depth= 2.44"
 Routed to Pond B-15 : Basin #15

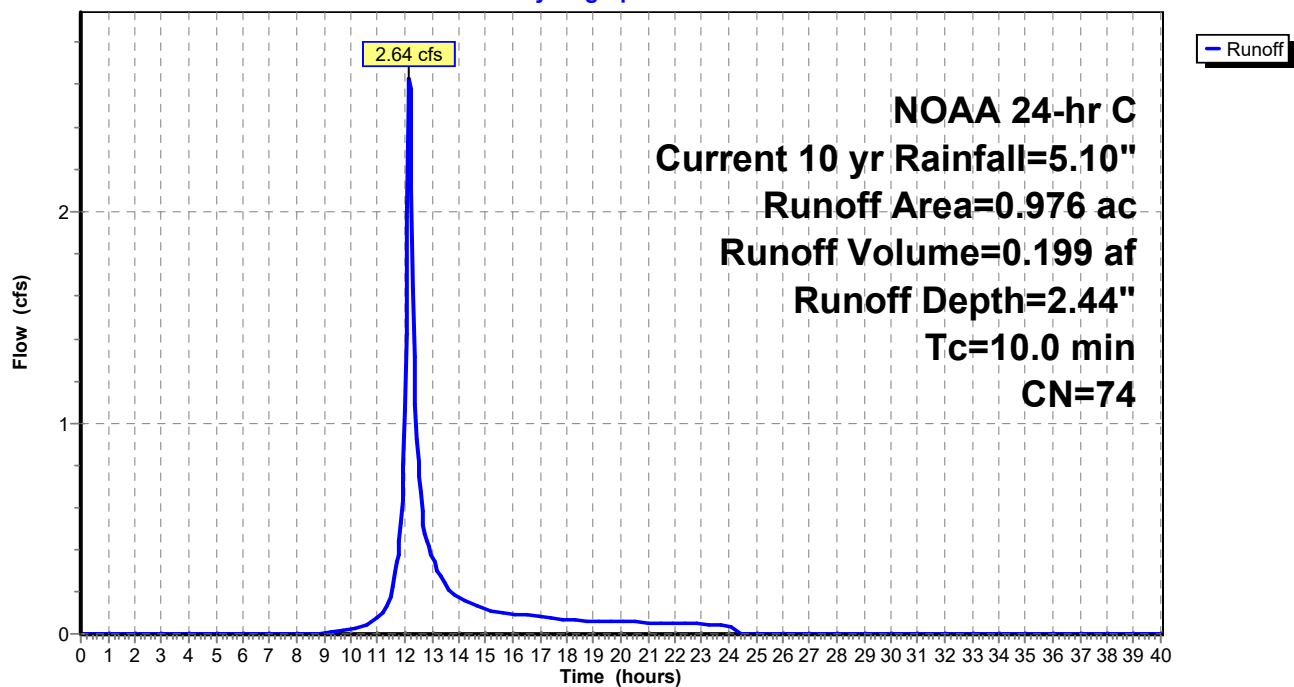
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

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

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

Subcatchment 15P: PDA-15 (pervious)

Hydrograph



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

Runoff = 3.96 cfs @ 12.17 hrs, Volume= 0.346 af, Depth= 4.86"
 Routed to Pond B-16A : Basin #16A

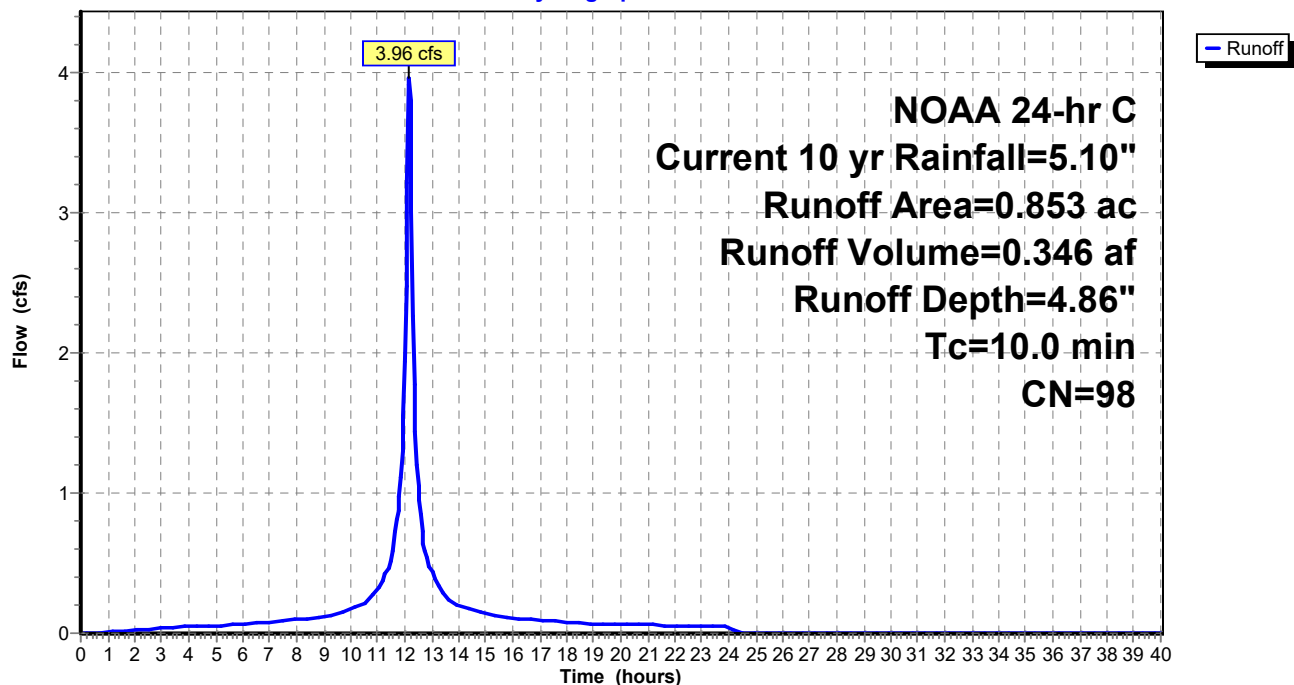
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

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

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

Subcatchment 16A1: PDA-16A (impervious)

Hydrograph



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

Runoff = 2.76 cfs @ 12.18 hrs, Volume= 0.208 af, Depth= 2.44"
 Routed to Pond B-16A : Basin #16A

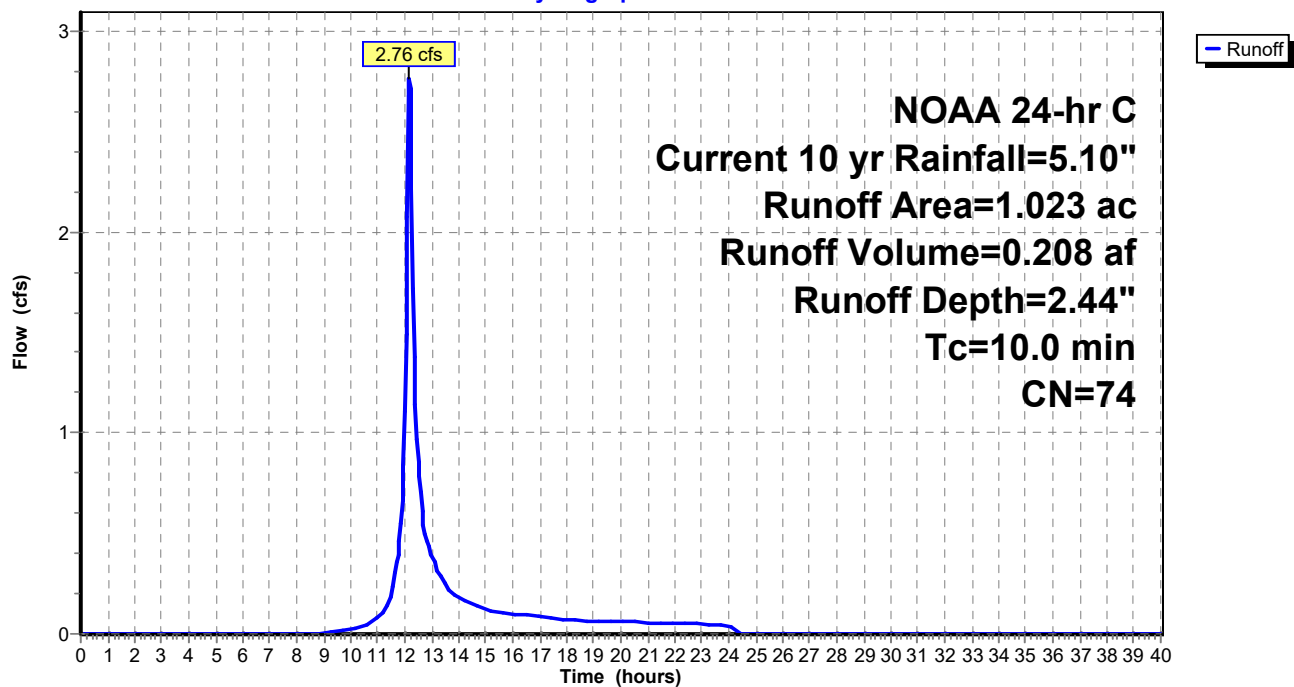
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

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

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

Subcatchment 16AP: PDA-16A (pervious)

Hydrograph



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

Runoff = 3.81 cfs @ 12.17 hrs, Volume= 0.333 af, Depth= 4.86"
 Routed to Pond B-16B : Basin #16B

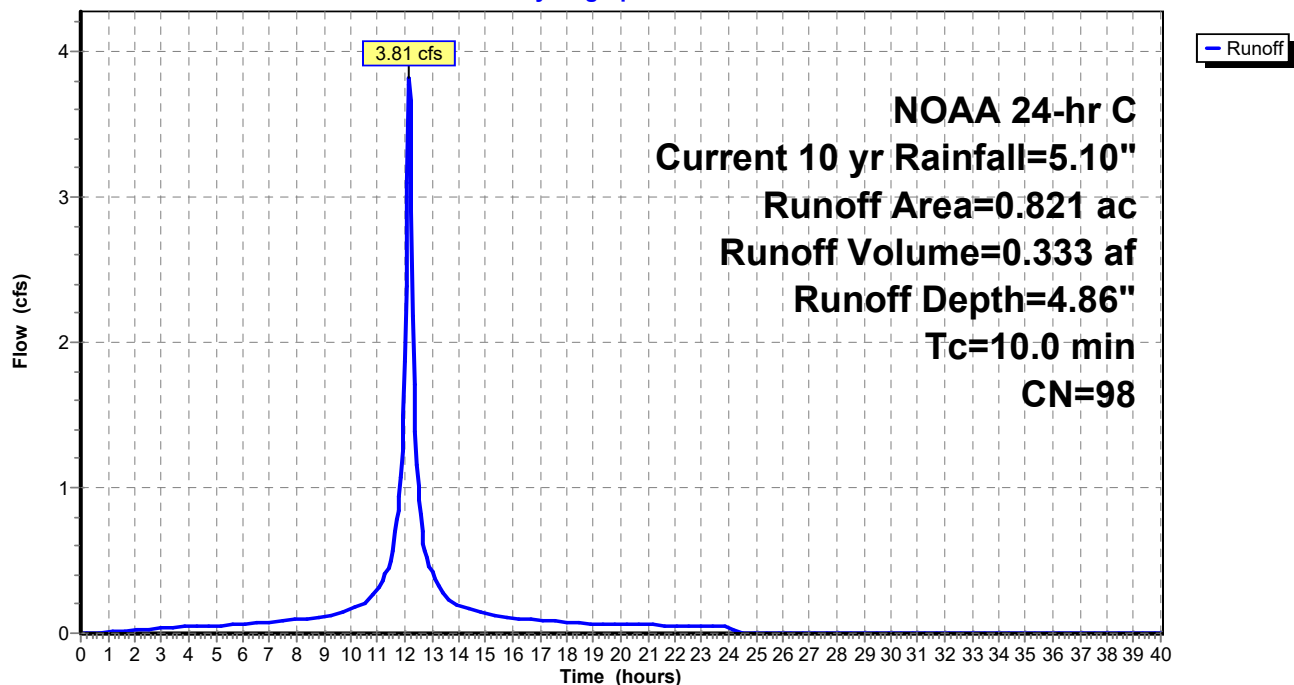
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

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

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

Subcatchment 16BI: PDA-16B (impervious)

Hydrograph



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

Runoff = 2.85 cfs @ 12.18 hrs, Volume= 0.215 af, Depth= 2.44"
 Routed to Pond B-16B : Basin #16B

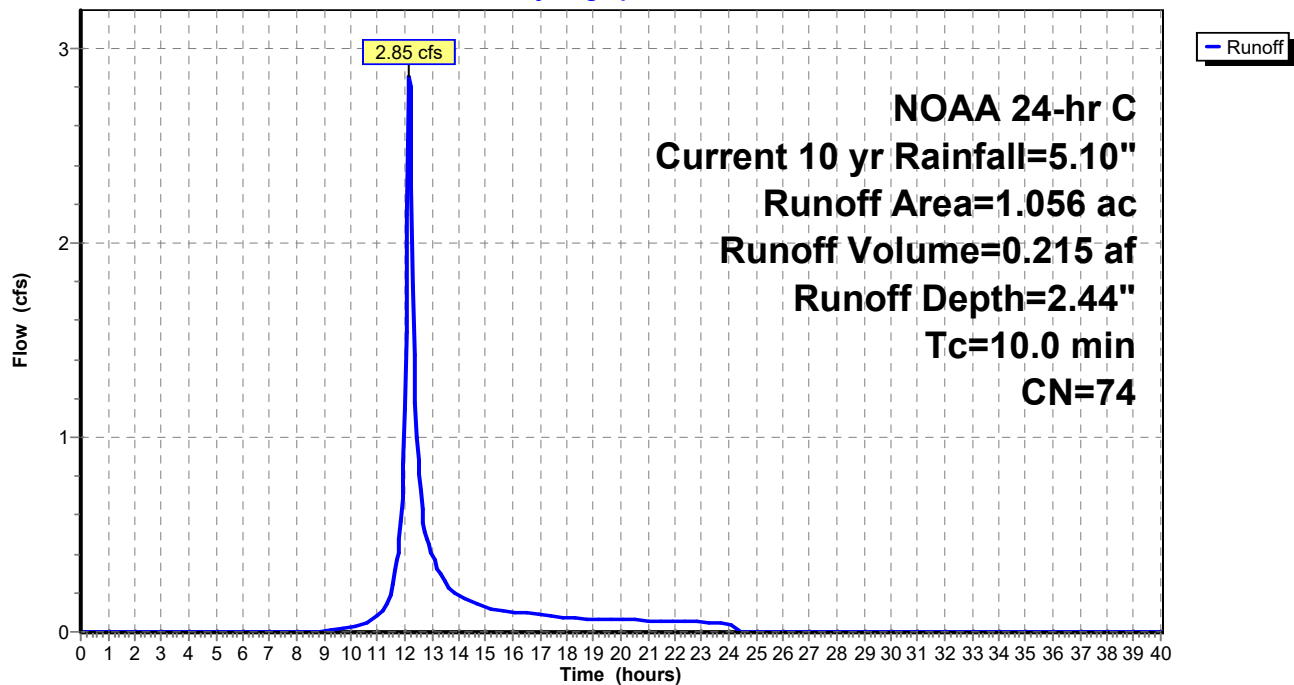
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

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

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

Subcatchment 16BP: PDA-16B (pervious)

Hydrograph



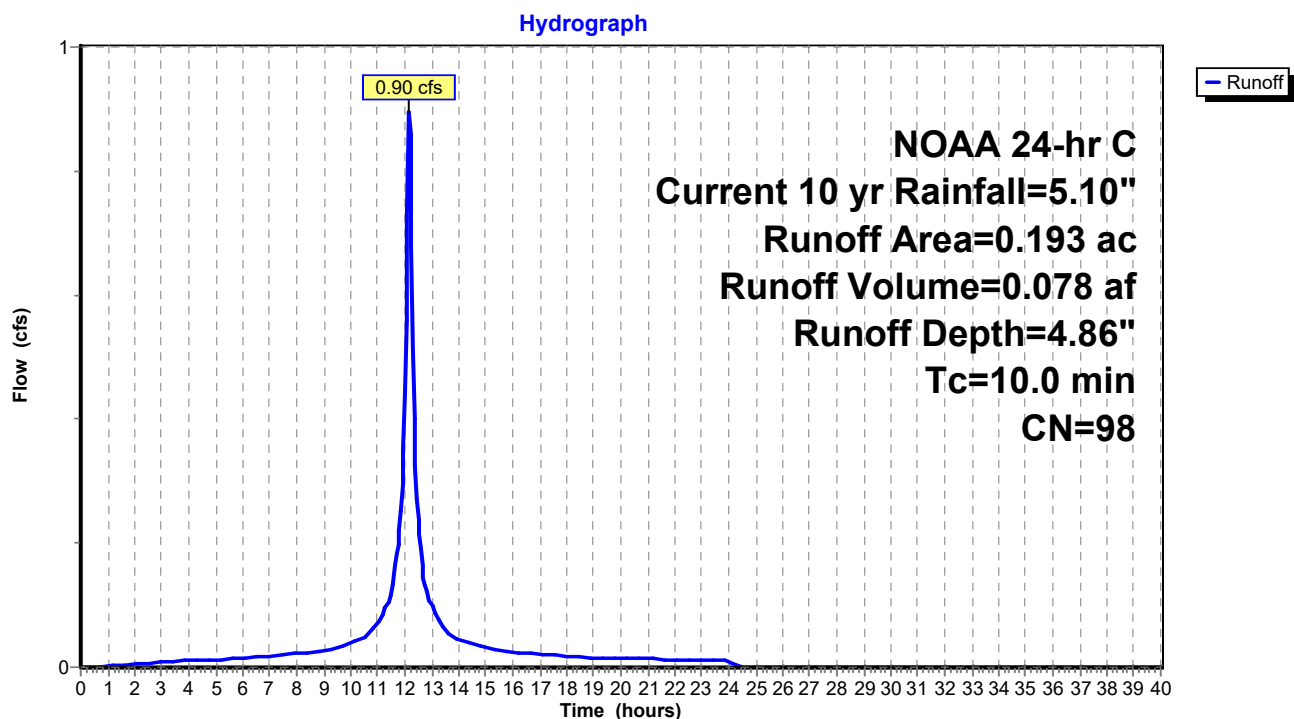
Summary for Subcatchment 17A1: PDA-17A (impervious)

Runoff = 0.90 cfs @ 12.17 hrs, Volume= 0.078 af, Depth= 4.86"
 Routed to Pond B-17A : Basin #17A

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

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

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

Subcatchment 17A1: PDA-17A (impervious)

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

Runoff = 3.05 cfs @ 12.18 hrs, Volume= 0.230 af, Depth= 2.44"
 Routed to Pond B-17A : Basin #17A

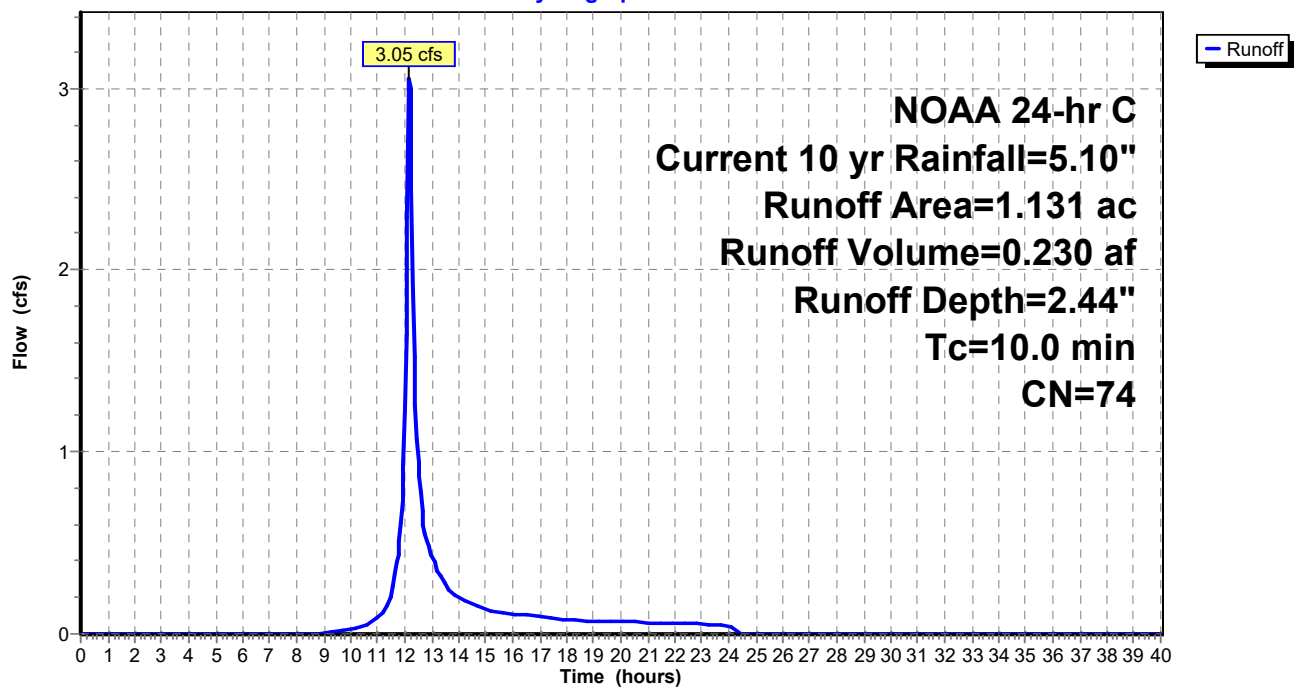
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

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

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

Subcatchment 17AP: PDA-17A (pervious)

Hydrograph



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

Runoff = 2.39 cfs @ 12.17 hrs, Volume= 0.208 af, Depth= 4.86"
 Routed to Pond B-17B : Basin #17B

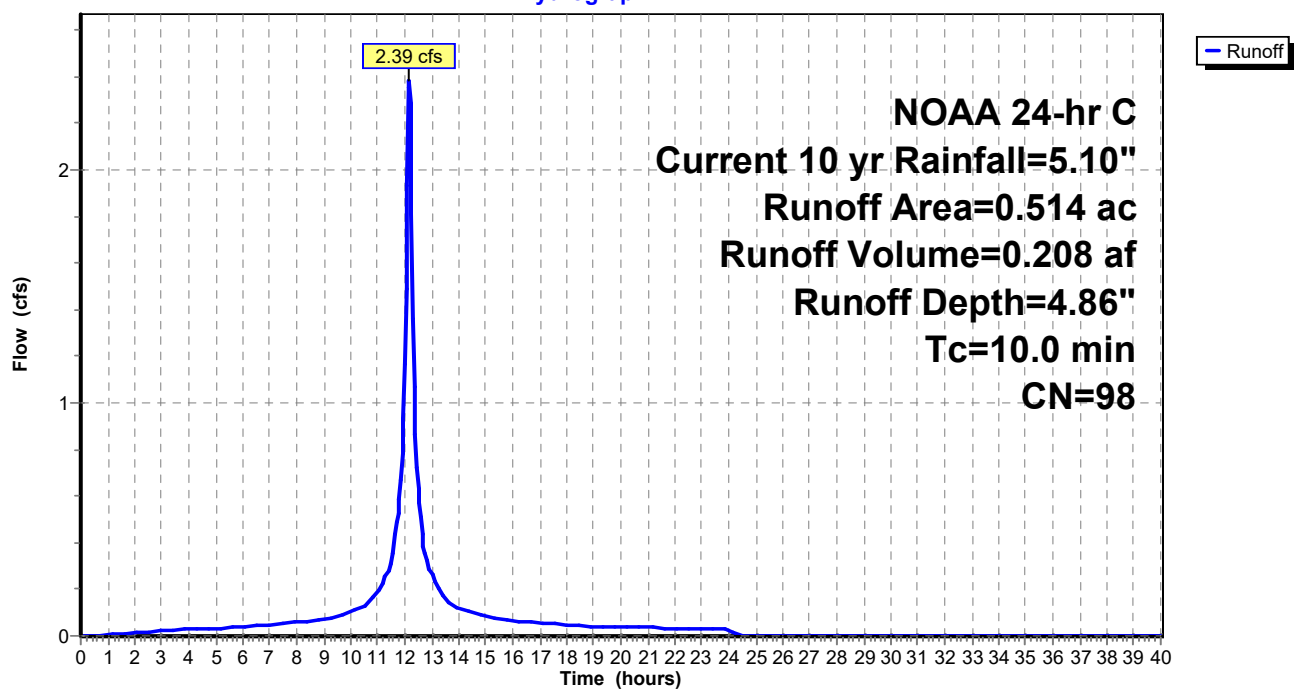
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

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

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

Subcatchment 17BI: PDA-17B (impervious)

Hydrograph



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

Runoff = 2.35 cfs @ 12.18 hrs, Volume= 0.177 af, Depth= 2.44"
 Routed to Pond B-17B : Basin #17B

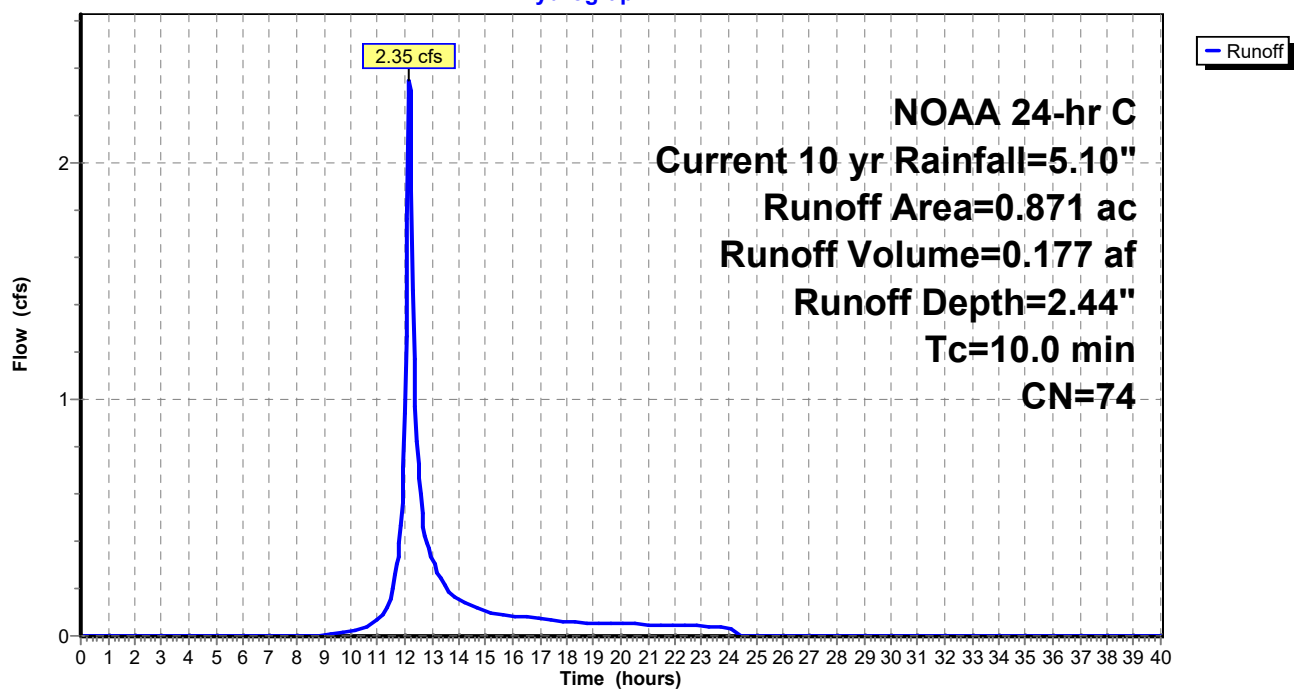
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

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

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

Subcatchment 17BP: PDA-17B (pervious)

Hydrograph



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

Runoff = 147.64 cfs @ 12.18 hrs, Volume= 11.136 af, Depth= 2.44"
 Routed to Link PDA-1 : Proposed Drainage Area #1

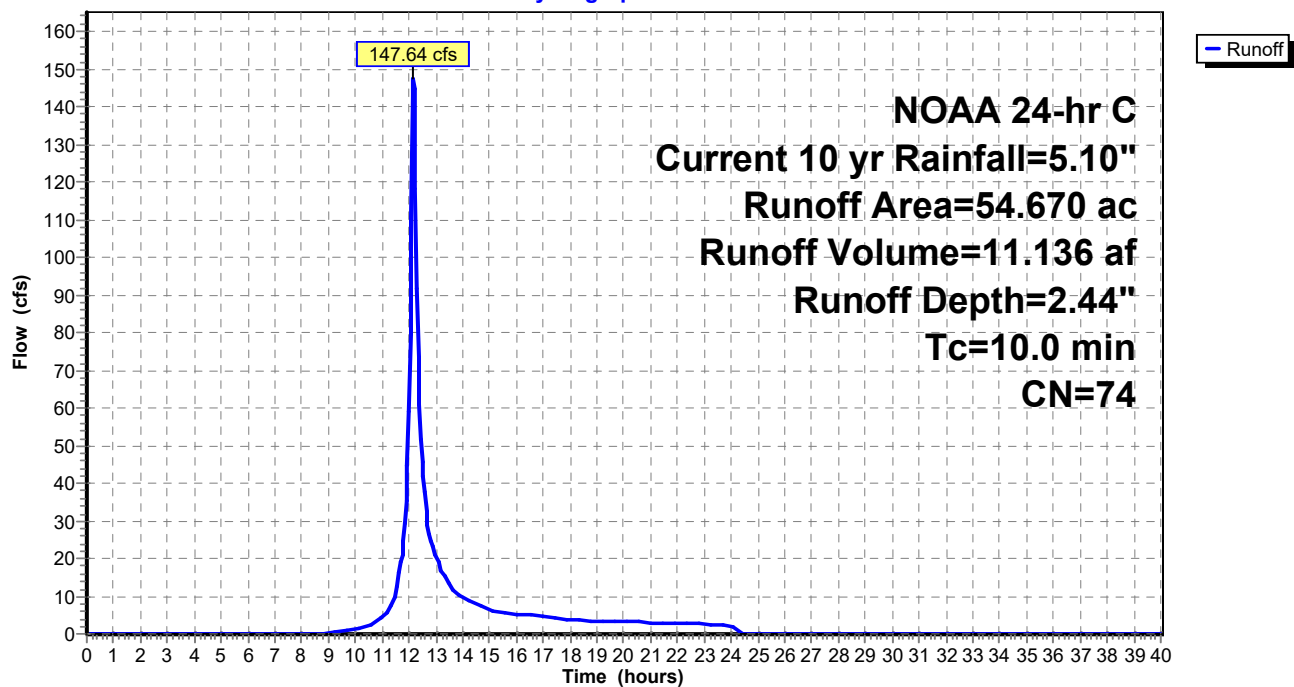
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 10 yr Rainfall=5.10"

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

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

Subcatchment UPDA-1: PDA-1 (undetained)

Hydrograph



Summary for Pond B-1: Basin #1

Inflow Area = 2.782 ac, 26.02% Impervious, Inflow Depth = 0.78" for Current 10 yr event
 Inflow = 2.40 cfs @ 12.18 hrs, Volume= 0.181 af
 Outflow = 0.08 cfs @ 16.55 hrs, Volume= 0.120 af, Atten= 97%, Lag= 262.4 min
 Primary = 0.08 cfs @ 16.55 hrs, Volume= 0.120 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 209.51' @ 16.55 hrs Surf.Area= 10,670 sf Storage= 5,324 cf

Plug-Flow detention time= 633.6 min calculated for 0.120 af (67% of inflow)
 Center-of-Mass det. time= 526.1 min (1,369.6 - 843.5)

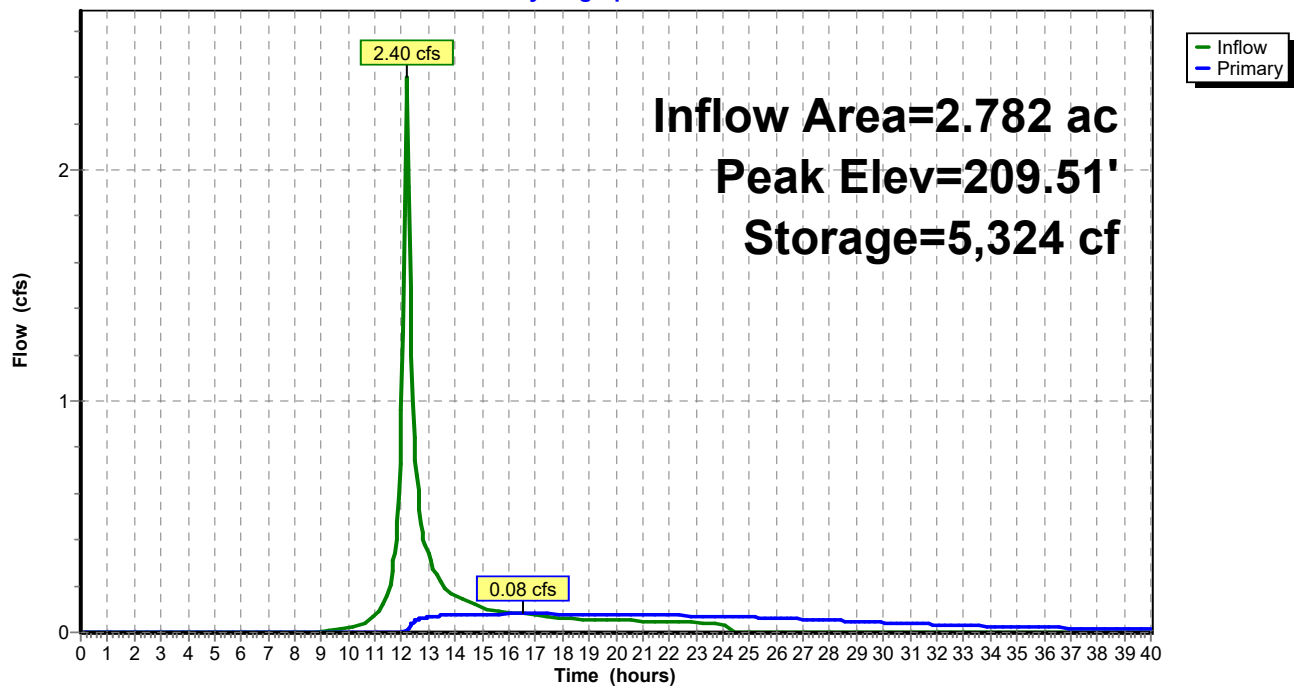
Volume	Invert	Avail.Storage	Storage Description
#1	209.00'	34,903 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

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

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

Primary OutFlow Max=0.08 cfs @ 16.55 hrs HW=209.51' (Free Discharge)

1=Culvert (Passes 0.08 cfs of 8.97 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.08 cfs @ 2.34 fps)
 3=Sharp-Crested Rectangular Weir(Controls 0.00 cfs)
 4=Broad-Crested Rectangular Weir(Controls 0.00 cfs)

Pond B-1: Basin #1**Hydrograph**

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

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

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

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

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

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

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

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

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

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

Summary for Pond B-10: Basin #10

Inflow Area = 1.674 ac, 56.63% Impervious, Inflow Depth = 3.81" for Current 10 yr event
 Inflow = 6.36 cfs @ 12.17 hrs, Volume= 0.532 af
 Outflow = 1.71 cfs @ 12.52 hrs, Volume= 0.440 af, Atten= 73%, Lag= 21.1 min
 Primary = 1.71 cfs @ 12.52 hrs, Volume= 0.440 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 181.09' @ 12.52 hrs Surf.Area= 5,914 sf Storage= 10,574 cf

Plug-Flow detention time= 180.8 min calculated for 0.440 af (83% of inflow)
 Center-of-Mass det. time= 104.7 min (882.3 - 777.6)

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

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

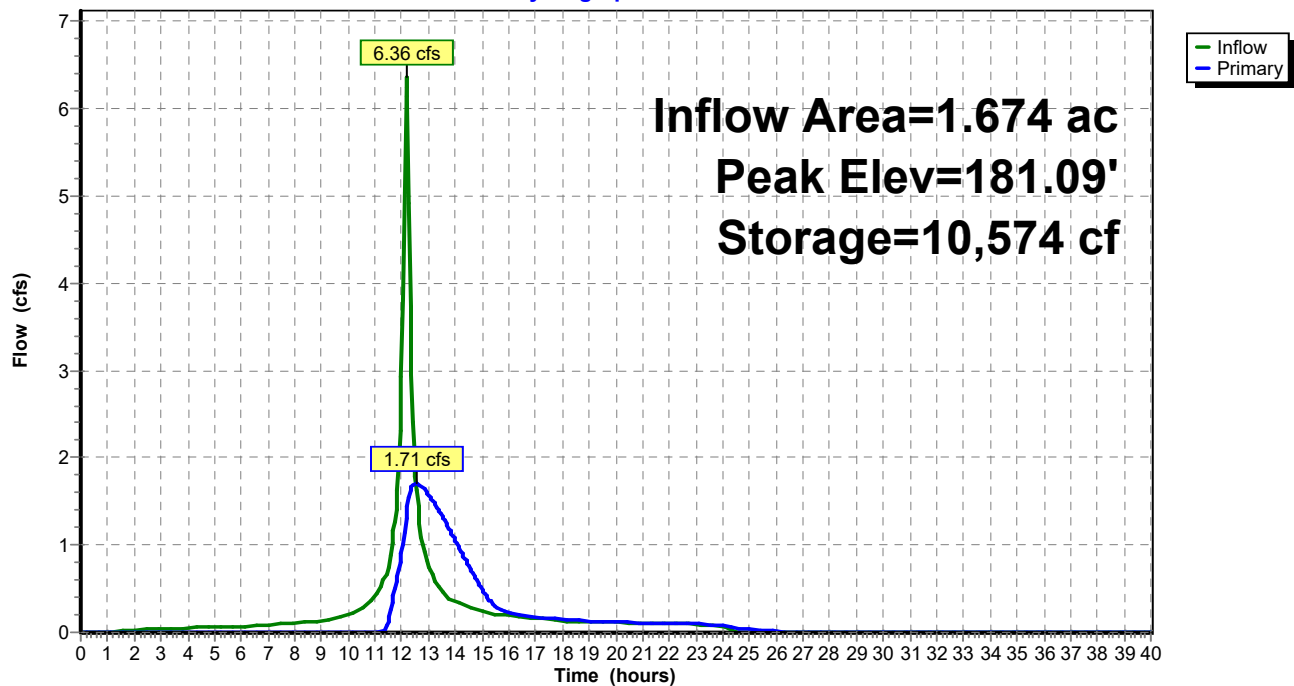
Device	Routing	Invert	Outlet Devices
#1	Primary	177.65'	18.0" Round Culvert L= 52.0' Ke= 0.500 Inlet / Outlet Invert= 177.65' / 176.00' S= 0.0317 ' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	179.88'	24.0" W x 2.0" H Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	182.00'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

Primary OutFlow Max=1.70 cfs @ 12.52 hrs HW=181.09' (Free Discharge)

1=Culvert (Passes 1.70 cfs of 13.96 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 1.70 cfs @ 5.11 fps)
 3=Sharp-Crested Rectangular Weir (Controls 0.00 cfs)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-10: Basin #10

Hydrograph



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

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

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

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

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

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

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

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

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

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

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

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

Summary for Pond B-11: Basin #11

Inflow Area = 2.228 ac, 58.53% Impervious, Inflow Depth = 3.86" for Current 10 yr event
 Inflow = 8.55 cfs @ 12.17 hrs, Volume= 0.717 af
 Outflow = 1.98 cfs @ 12.59 hrs, Volume= 0.560 af, Atten= 77%, Lag= 25.2 min
 Primary = 1.98 cfs @ 12.59 hrs, Volume= 0.560 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 183.01' @ 12.59 hrs Surf.Area= 7,147 sf Storage= 17,886 cf

Plug-Flow detention time= 549.7 min calculated for 0.560 af (78% of inflow)
 Center-of-Mass det. time= 463.8 min (1,240.0 - 776.2)

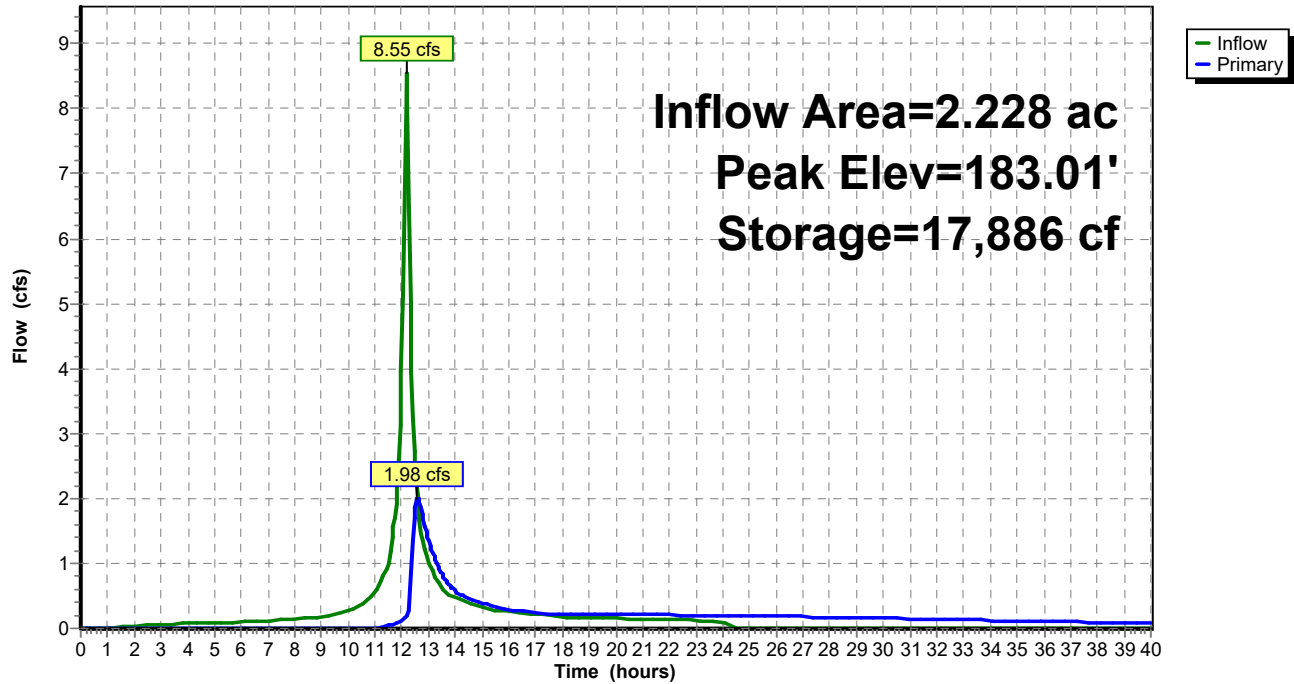
Volume	Invert	Avail.Storage	Storage Description
#1	180.00'	43,224 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

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

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

Primary OutFlow Max=1.97 cfs @ 12.59 hrs HW=183.01' (Free Discharge)

1=Culvert (Passes 1.97 cfs of 13.47 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.23 cfs @ 6.65 fps)
 3=Sharp-Crested Rectangular Weir (Weir Controls 1.75 cfs @ 1.68 fps)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Stage-Area-Storage for Pond B-11: Basin #11 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
185.20	9,115	35,625	185.72	9,613	40,495
185.21	9,124	35,716	185.73	9,623	40,591
185.22	9,134	35,808	185.74	9,633	40,687
185.23	9,144	35,899	185.75	9,642	40,783
185.24	9,153	35,991	185.76	9,652	40,880
185.25	9,163	36,082	185.77	9,661	40,977
185.26	9,172	36,174	185.78	9,671	41,073
185.27	9,182	36,266	185.79	9,681	41,170
185.28	9,192	36,358	185.80	9,690	41,267
185.29	9,201	36,449	185.81	9,700	41,364
185.30	9,211	36,542	185.82	9,709	41,461
185.31	9,220	36,634	185.83	9,719	41,558
185.32	9,230	36,726	185.84	9,729	41,655
185.33	9,239	36,818	185.85	9,738	41,752
185.34	9,249	36,911	185.86	9,748	41,850
185.35	9,259	37,003	185.87	9,757	41,947
185.36	9,268	37,096	185.88	9,767	42,045
185.37	9,278	37,189	185.89	9,777	42,143
185.38	9,287	37,281	185.90	9,786	42,241
185.39	9,297	37,374	185.91	9,796	42,339
185.40	9,307	37,467	185.92	9,805	42,437
185.41	9,316	37,561	185.93	9,815	42,535
185.42	9,326	37,654	185.94	9,824	42,633
185.43	9,335	37,747	185.95	9,834	42,731
185.44	9,345	37,840	185.96	9,844	42,829
185.45	9,355	37,934	185.97	9,853	42,928
185.46	9,364	38,028	185.98	9,863	43,027
185.47	9,374	38,121	185.99	9,872	43,125
185.48	9,383	38,215	186.00	9,882	43,224
185.49	9,393	38,309			
185.50	9,403	38,403			
185.51	9,412	38,497			
185.52	9,422	38,591			
185.53	9,431	38,685			
185.54	9,441	38,780			
185.55	9,450	38,874			
185.56	9,460	38,969			
185.57	9,470	39,063			
185.58	9,479	39,158			
185.59	9,489	39,253			
185.60	9,498	39,348			
185.61	9,508	39,443			
185.62	9,518	39,538			
185.63	9,527	39,633			
185.64	9,537	39,729			
185.65	9,546	39,824			
185.66	9,556	39,920			
185.67	9,566	40,015			
185.68	9,575	40,111			
185.69	9,585	40,207			
185.70	9,594	40,303			
185.71	9,604	40,399			

Summary for Pond B-12: Basin #12

Inflow Area = 2.426 ac, 44.77% Impervious, Inflow Depth = 3.53" for Current 10 yr event
 Inflow = 8.66 cfs @ 12.17 hrs, Volume= 0.713 af
 Outflow = 4.35 cfs @ 12.34 hrs, Volume= 0.608 af, Atten= 50%, Lag= 10.2 min
 Primary = 4.35 cfs @ 12.34 hrs, Volume= 0.608 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 203.38' @ 12.34 hrs Surf.Area= 6,399 sf Storage= 13,075 cf

Plug-Flow detention time= 191.0 min calculated for 0.608 af (85% of inflow)
 Center-of-Mass det. time= 122.5 min (909.6 - 787.2)

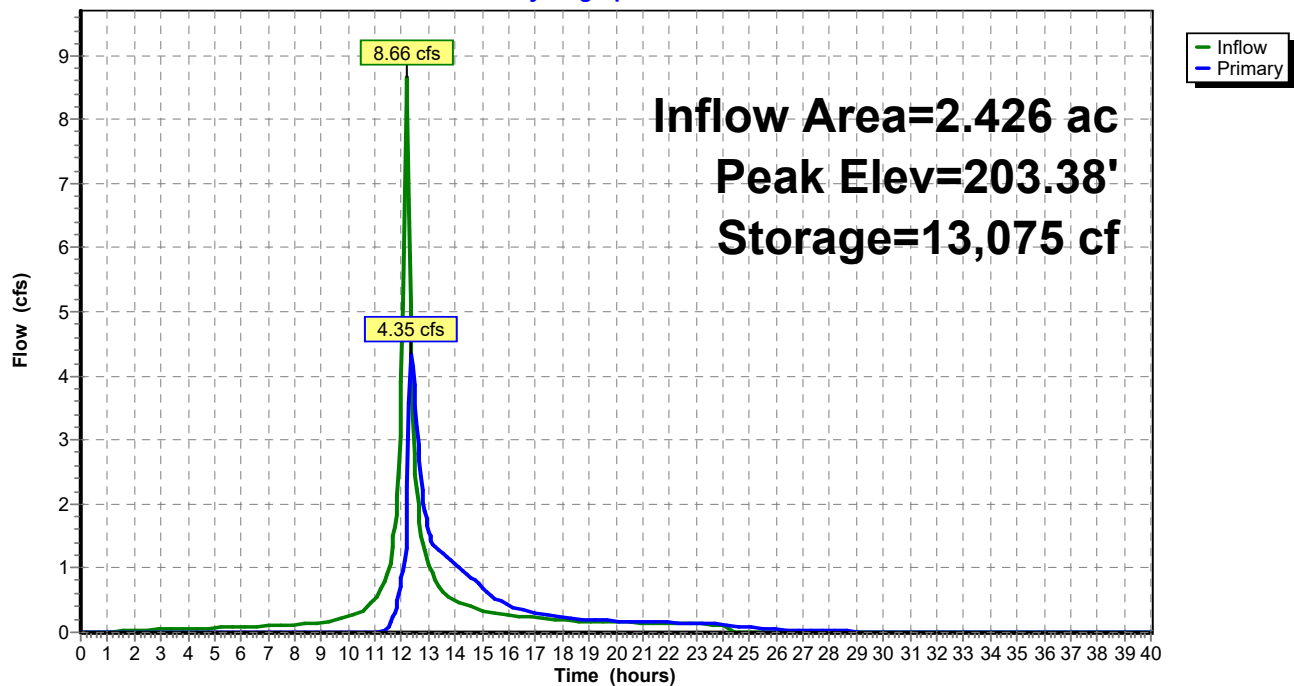
Volume	Invert	Avail.Storage	Storage Description
#1	201.00'	24,487 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
201.00	4,623	0	0
202.00	5,350	4,987	4,987
203.00	6,105	5,728	10,714
204.00	6,883	6,494	17,208
205.00	7,674	7,279	24,487

Device	Routing	Invert	Outlet Devices
#1	Primary	199.65'	18.0" Round Culvert L= 238.0' Ke= 0.500 Inlet / Outlet Invert= 199.65' / 195.50' S= 0.0174 ' / ' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	201.90'	7.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	203.02'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	204.50'	50.0' long + 3.0 ' /' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=4.33 cfs @ 12.34 hrs HW=203.38' (Free Discharge)

1=Culvert (Passes 4.33 cfs of 14.68 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 1.59 cfs @ 5.19 fps)
 3=Sharp-Crested Rectangular Weir (Weir Controls 2.73 cfs @ 1.95 fps)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-12: Basin #12**Hydrograph**

Stage-Discharge for Pond B-12: Basin #12

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
201.00	0.00	201.52	0.00	202.04	0.07	202.56	0.87
201.01	0.00	201.53	0.00	202.05	0.07	202.57	0.88
201.02	0.00	201.54	0.00	202.06	0.08	202.58	0.90
201.03	0.00	201.55	0.00	202.07	0.09	202.59	0.91
201.04	0.00	201.56	0.00	202.08	0.11	202.60	0.92
201.05	0.00	201.57	0.00	202.09	0.12	202.61	0.93
201.06	0.00	201.58	0.00	202.10	0.13	202.62	0.94
201.07	0.00	201.59	0.00	202.11	0.14	202.63	0.95
201.08	0.00	201.60	0.00	202.12	0.15	202.64	0.97
201.09	0.00	201.61	0.00	202.13	0.17	202.65	0.98
201.10	0.00	201.62	0.00	202.14	0.18	202.66	0.99
201.11	0.00	201.63	0.00	202.15	0.20	202.67	1.00
201.12	0.00	201.64	0.00	202.16	0.21	202.68	1.01
201.13	0.00	201.65	0.00	202.17	0.22	202.69	1.02
201.14	0.00	201.66	0.00	202.18	0.24	202.70	1.03
201.15	0.00	201.67	0.00	202.19	0.26	202.71	1.04
201.16	0.00	201.68	0.00	202.20	0.27	202.72	1.05
201.17	0.00	201.69	0.00	202.21	0.29	202.73	1.06
201.18	0.00	201.70	0.00	202.22	0.30	202.74	1.07
201.19	0.00	201.71	0.00	202.23	0.32	202.75	1.08
201.20	0.00	201.72	0.00	202.24	0.34	202.76	1.09
201.21	0.00	201.73	0.00	202.25	0.36	202.77	1.10
201.22	0.00	201.74	0.00	202.26	0.37	202.78	1.11
201.23	0.00	201.75	0.00	202.27	0.39	202.79	1.12
201.24	0.00	201.76	0.00	202.28	0.41	202.80	1.13
201.25	0.00	201.77	0.00	202.29	0.43	202.81	1.14
201.26	0.00	201.78	0.00	202.30	0.45	202.82	1.15
201.27	0.00	201.79	0.00	202.31	0.47	202.83	1.16
201.28	0.00	201.80	0.00	202.32	0.48	202.84	1.17
201.29	0.00	201.81	0.00	202.33	0.50	202.85	1.18
201.30	0.00	201.82	0.00	202.34	0.52	202.86	1.19
201.31	0.00	201.83	0.00	202.35	0.54	202.87	1.20
201.32	0.00	201.84	0.00	202.36	0.56	202.88	1.21
201.33	0.00	201.85	0.00	202.37	0.58	202.89	1.22
201.34	0.00	201.86	0.00	202.38	0.60	202.90	1.22
201.35	0.00	201.87	0.00	202.39	0.61	202.91	1.23
201.36	0.00	201.88	0.00	202.40	0.63	202.92	1.24
201.37	0.00	201.89	0.00	202.41	0.65	202.93	1.25
201.38	0.00	201.90	0.00	202.42	0.67	202.94	1.26
201.39	0.00	201.91	0.00	202.43	0.69	202.95	1.27
201.40	0.00	201.92	0.00	202.44	0.70	202.96	1.28
201.41	0.00	201.93	0.00	202.45	0.72	202.97	1.29
201.42	0.00	201.94	0.01	202.46	0.74	202.98	1.29
201.43	0.00	201.95	0.01	202.47	0.75	202.99	1.30
201.44	0.00	201.96	0.01	202.48	0.77	203.00	1.31
201.45	0.00	201.97	0.02	202.49	0.78	203.01	1.32
201.46	0.00	201.98	0.02	202.50	0.80	203.02	1.33
201.47	0.00	201.99	0.03	202.51	0.81	203.03	1.35
201.48	0.00	202.00	0.03	202.52	0.82	203.04	1.38
201.49	0.00	202.01	0.04	202.53	0.83	203.05	1.42
201.50	0.00	202.02	0.05	202.54	0.85	203.06	1.46
201.51	0.00	202.03	0.06	202.55	0.86	203.07	1.51

Stage-Discharge for Pond B-12: Basin #12 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
203.08	1.57	203.60	7.35	204.12	15.64	204.64	22.37
203.09	1.63	203.61	7.50	204.13	15.65	204.65	23.06
203.10	1.69	203.62	7.65	204.14	15.66	204.66	23.77
203.11	1.75	203.63	7.80	204.15	15.67	204.67	24.50
203.12	1.82	203.64	7.95	204.16	15.69	204.68	25.26
203.13	1.89	203.65	8.11	204.17	15.70	204.69	26.03
203.14	1.96	203.66	8.26	204.18	15.71	204.70	26.83
203.15	2.04	203.67	8.42	204.19	15.72	204.71	27.69
203.16	2.12	203.68	8.57	204.20	15.73	204.72	28.57
203.17	2.20	203.69	8.73	204.21	15.74	204.73	29.48
203.18	2.28	203.70	8.89	204.22	15.75	204.74	30.41
203.19	2.37	203.71	9.05	204.23	15.76	204.75	31.37
203.20	2.46	203.72	9.21	204.24	15.77	204.76	32.36
203.21	2.55	203.73	9.37	204.25	15.78	204.77	33.37
203.22	2.64	203.74	9.53	204.26	15.79	204.78	34.40
203.23	2.74	203.75	9.69	204.27	15.81	204.79	35.46
203.24	2.83	203.76	9.86	204.28	15.82	204.80	36.54
203.25	2.93	203.77	10.02	204.29	15.83	204.81	37.65
203.26	3.03	203.78	10.19	204.30	15.84	204.82	38.78
203.27	3.13	203.79	10.35	204.31	15.85	204.83	39.94
203.28	3.24	203.80	10.52	204.32	15.86	204.84	41.12
203.29	3.34	203.81	10.69	204.33	15.87	204.85	42.32
203.30	3.45	203.82	10.86	204.34	15.88	204.86	43.55
203.31	3.56	203.83	11.03	204.35	15.89	204.87	44.80
203.32	3.67	203.84	11.20	204.36	15.90	204.88	46.08
203.33	3.78	203.85	11.37	204.37	15.91	204.89	47.38
203.34	3.90	203.86	11.54	204.38	15.92	204.90	48.71
203.35	4.01	203.87	11.72	204.39	15.94	204.91	50.08
203.36	4.13	203.88	11.89	204.40	15.95	204.92	51.48
203.37	4.25	203.89	12.07	204.41	15.96	204.93	52.91
203.38	4.37	203.90	12.24	204.42	15.97	204.94	54.37
203.39	4.49	203.91	12.42	204.43	15.98	204.95	55.85
203.40	4.62	203.92	12.60	204.44	15.99	204.96	57.35
203.41	4.74	203.93	12.77	204.45	16.00	204.97	58.89
203.42	4.87	203.94	12.95	204.46	16.01	204.98	60.45
203.43	4.99	203.95	13.13	204.47	16.02	204.99	62.03
203.44	5.12	203.96	13.31	204.48	16.03	205.00	63.65
203.45	5.25	203.97	13.49	204.49	16.04		
203.46	5.38	203.98	13.68	204.50	16.05		
203.47	5.52	203.99	13.86	204.51	16.18		
203.48	5.65	204.00	14.04	204.52	16.41		
203.49	5.79	204.01	14.23	204.53	16.69		
203.50	5.92	204.02	14.41	204.54	17.03		
203.51	6.06	204.03	14.60	204.55	17.42		
203.52	6.20	204.04	14.78	204.56	17.84		
203.53	6.34	204.05	14.97	204.57	18.30		
203.54	6.48	204.06	15.16	204.58	18.80		
203.55	6.62	204.07	15.35	204.59	19.32		
203.56	6.77	204.08	15.54	204.60	19.88		
203.57	6.91	204.09	15.61	204.61	20.46		
203.58	7.06	204.10	15.62	204.62	21.07		
203.59	7.20	204.11	15.63	204.63	21.71		

Stage-Area-Storage for Pond B-12: Basin #12

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
201.00	4,623	0	201.52	5,001	2,502
201.01	4,630	46	201.53	5,008	2,552
201.02	4,638	93	201.54	5,016	2,602
201.03	4,645	139	201.55	5,023	2,653
201.04	4,652	186	201.56	5,030	2,703
201.05	4,659	232	201.57	5,037	2,753
201.06	4,667	279	201.58	5,045	2,804
201.07	4,674	325	201.59	5,052	2,854
201.08	4,681	372	201.60	5,059	2,905
201.09	4,688	419	201.61	5,066	2,955
201.10	4,696	466	201.62	5,074	3,006
201.11	4,703	513	201.63	5,081	3,057
201.12	4,710	560	201.64	5,088	3,108
201.13	4,718	607	201.65	5,096	3,159
201.14	4,725	654	201.66	5,103	3,210
201.15	4,732	702	201.67	5,110	3,261
201.16	4,739	749	201.68	5,117	3,312
201.17	4,747	796	201.69	5,125	3,363
201.18	4,754	844	201.70	5,132	3,414
201.19	4,761	891	201.71	5,139	3,466
201.20	4,768	939	201.72	5,146	3,517
201.21	4,776	987	201.73	5,154	3,568
201.22	4,783	1,035	201.74	5,161	3,620
201.23	4,790	1,083	201.75	5,168	3,672
201.24	4,797	1,130	201.76	5,176	3,723
201.25	4,805	1,178	201.77	5,183	3,775
201.26	4,812	1,227	201.78	5,190	3,827
201.27	4,819	1,275	201.79	5,197	3,879
201.28	4,827	1,323	201.80	5,205	3,931
201.29	4,834	1,371	201.81	5,212	3,983
201.30	4,841	1,420	201.82	5,219	4,035
201.31	4,848	1,468	201.83	5,226	4,088
201.32	4,856	1,517	201.84	5,234	4,140
201.33	4,863	1,565	201.85	5,241	4,192
201.34	4,870	1,614	201.86	5,248	4,245
201.35	4,877	1,663	201.87	5,255	4,297
201.36	4,885	1,711	201.88	5,263	4,350
201.37	4,892	1,760	201.89	5,270	4,402
201.38	4,899	1,809	201.90	5,277	4,455
201.39	4,907	1,858	201.91	5,285	4,508
201.40	4,914	1,907	201.92	5,292	4,561
201.41	4,921	1,957	201.93	5,299	4,614
201.42	4,928	2,006	201.94	5,306	4,667
201.43	4,936	2,055	201.95	5,314	4,720
201.44	4,943	2,104	201.96	5,321	4,773
201.45	4,950	2,154	201.97	5,328	4,826
201.46	4,957	2,203	201.98	5,335	4,880
201.47	4,965	2,253	201.99	5,343	4,933
201.48	4,972	2,303	202.00	5,350	4,987
201.49	4,979	2,353	202.01	5,358	5,040
201.50	4,987	2,402	202.02	5,365	5,094
201.51	4,994	2,452	202.03	5,373	5,147

Stage-Area-Storage for Pond B-12: Basin #12 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
202.04	5,380	5,201	202.56	5,773	8,101
202.05	5,388	5,255	202.57	5,780	8,159
202.06	5,395	5,309	202.58	5,788	8,216
202.07	5,403	5,363	202.59	5,795	8,274
202.08	5,410	5,417	202.60	5,803	8,332
202.09	5,418	5,471	202.61	5,811	8,390
202.10	5,425	5,525	202.62	5,818	8,449
202.11	5,433	5,580	202.63	5,826	8,507
202.12	5,441	5,634	202.64	5,833	8,565
202.13	5,448	5,688	202.65	5,841	8,623
202.14	5,456	5,743	202.66	5,848	8,682
202.15	5,463	5,797	202.67	5,856	8,740
202.16	5,471	5,852	202.68	5,863	8,799
202.17	5,478	5,907	202.69	5,871	8,858
202.18	5,486	5,962	202.70	5,878	8,916
202.19	5,493	6,017	202.71	5,886	8,975
202.20	5,501	6,072	202.72	5,894	9,034
202.21	5,509	6,127	202.73	5,901	9,093
202.22	5,516	6,182	202.74	5,909	9,152
202.23	5,524	6,237	202.75	5,916	9,211
202.24	5,531	6,292	202.76	5,924	9,271
202.25	5,539	6,348	202.77	5,931	9,330
202.26	5,546	6,403	202.78	5,939	9,389
202.27	5,554	6,459	202.79	5,946	9,449
202.28	5,561	6,514	202.80	5,954	9,508
202.29	5,569	6,570	202.81	5,962	9,568
202.30	5,577	6,625	202.82	5,969	9,627
202.31	5,584	6,681	202.83	5,977	9,687
202.32	5,592	6,737	202.84	5,984	9,747
202.33	5,599	6,793	202.85	5,992	9,807
202.34	5,607	6,849	202.86	5,999	9,867
202.35	5,614	6,905	202.87	6,007	9,927
202.36	5,622	6,961	202.88	6,014	9,987
202.37	5,629	7,018	202.89	6,022	10,047
202.38	5,637	7,074	202.90	6,030	10,107
202.39	5,644	7,130	202.91	6,037	10,168
202.40	5,652	7,187	202.92	6,045	10,228
202.41	5,660	7,243	202.93	6,052	10,288
202.42	5,667	7,300	202.94	6,060	10,349
202.43	5,675	7,357	202.95	6,067	10,410
202.44	5,682	7,414	202.96	6,075	10,470
202.45	5,690	7,470	202.97	6,082	10,531
202.46	5,697	7,527	202.98	6,090	10,592
202.47	5,705	7,584	202.99	6,097	10,653
202.48	5,712	7,641	203.00	6,105	10,714
202.49	5,720	7,699	203.01	6,113	10,775
202.50	5,728	7,756	203.02	6,121	10,836
202.51	5,735	7,813	203.03	6,128	10,898
202.52	5,743	7,871	203.04	6,136	10,959
202.53	5,750	7,928	203.05	6,144	11,020
202.54	5,758	7,986	203.06	6,152	11,082
202.55	5,765	8,043	203.07	6,159	11,143

Stage-Area-Storage for Pond B-12: Basin #12 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
203.08	6,167	11,205	203.60	6,572	14,517
203.09	6,175	11,267	203.61	6,580	14,583
203.10	6,183	11,328	203.62	6,587	14,649
203.11	6,191	11,390	203.63	6,595	14,715
203.12	6,198	11,452	203.64	6,603	14,781
203.13	6,206	11,514	203.65	6,611	14,847
203.14	6,214	11,576	203.66	6,618	14,913
203.15	6,222	11,639	203.67	6,626	14,979
203.16	6,229	11,701	203.68	6,634	15,045
203.17	6,237	11,763	203.69	6,642	15,112
203.18	6,245	11,826	203.70	6,650	15,178
203.19	6,253	11,888	203.71	6,657	15,245
203.20	6,261	11,951	203.72	6,665	15,311
203.21	6,268	12,013	203.73	6,673	15,378
203.22	6,276	12,076	203.74	6,681	15,445
203.23	6,284	12,139	203.75	6,689	15,512
203.24	6,292	12,202	203.76	6,696	15,578
203.25	6,300	12,265	203.77	6,704	15,645
203.26	6,307	12,328	203.78	6,712	15,713
203.27	6,315	12,391	203.79	6,720	15,780
203.28	6,323	12,454	203.80	6,727	15,847
203.29	6,331	12,517	203.81	6,735	15,914
203.30	6,338	12,581	203.82	6,743	15,982
203.31	6,346	12,644	203.83	6,751	16,049
203.32	6,354	12,707	203.84	6,759	16,117
203.33	6,362	12,771	203.85	6,766	16,184
203.34	6,370	12,835	203.86	6,774	16,252
203.35	6,377	12,898	203.87	6,782	16,320
203.36	6,385	12,962	203.88	6,790	16,388
203.37	6,393	13,026	203.89	6,797	16,456
203.38	6,401	13,090	203.90	6,805	16,524
203.39	6,408	13,154	203.91	6,813	16,592
203.40	6,416	13,218	203.92	6,821	16,660
203.41	6,424	13,282	203.93	6,829	16,728
203.42	6,432	13,347	203.94	6,836	16,796
203.43	6,440	13,411	203.95	6,844	16,865
203.44	6,447	13,476	203.96	6,852	16,933
203.45	6,455	13,540	203.97	6,860	17,002
203.46	6,463	13,605	203.98	6,867	17,070
203.47	6,471	13,669	203.99	6,875	17,139
203.48	6,478	13,734	204.00	6,883	17,208
203.49	6,486	13,799	204.01	6,891	17,277
203.50	6,494	13,864	204.02	6,899	17,346
203.51	6,502	13,929	204.03	6,907	17,415
203.52	6,510	13,994	204.04	6,915	17,484
203.53	6,517	14,059	204.05	6,923	17,553
203.54	6,525	14,124	204.06	6,930	17,622
203.55	6,533	14,189	204.07	6,938	17,692
203.56	6,541	14,255	204.08	6,946	17,761
203.57	6,548	14,320	204.09	6,954	17,831
203.58	6,556	14,386	204.10	6,962	17,900
203.59	6,564	14,451	204.11	6,970	17,970

Stage-Area-Storage for Pond B-12: Basin #12 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
204.12	6,978	18,040	204.64	7,389	21,775
204.13	6,986	18,109	204.65	7,397	21,849
204.14	6,994	18,179	204.66	7,405	21,923
204.15	7,002	18,249	204.67	7,413	21,997
204.16	7,010	18,319	204.68	7,421	22,071
204.17	7,017	18,390	204.69	7,429	22,146
204.18	7,025	18,460	204.70	7,437	22,220
204.19	7,033	18,530	204.71	7,445	22,294
204.20	7,041	18,600	204.72	7,453	22,369
204.21	7,049	18,671	204.73	7,460	22,443
204.22	7,057	18,741	204.74	7,468	22,518
204.23	7,065	18,812	204.75	7,476	22,593
204.24	7,073	18,883	204.76	7,484	22,668
204.25	7,081	18,953	204.77	7,492	22,742
204.26	7,089	19,024	204.78	7,500	22,817
204.27	7,097	19,095	204.79	7,508	22,892
204.28	7,104	19,166	204.80	7,516	22,968
204.29	7,112	19,237	204.81	7,524	23,043
204.30	7,120	19,308	204.82	7,532	23,118
204.31	7,128	19,380	204.83	7,540	23,193
204.32	7,136	19,451	204.84	7,547	23,269
204.33	7,144	19,522	204.85	7,555	23,344
204.34	7,152	19,594	204.86	7,563	23,420
204.35	7,160	19,665	204.87	7,571	23,496
204.36	7,168	19,737	204.88	7,579	23,571
204.37	7,176	19,809	204.89	7,587	23,647
204.38	7,184	19,881	204.90	7,595	23,723
204.39	7,191	19,953	204.91	7,603	23,799
204.40	7,199	20,024	204.92	7,611	23,875
204.41	7,207	20,097	204.93	7,619	23,951
204.42	7,215	20,169	204.94	7,627	24,027
204.43	7,223	20,241	204.95	7,634	24,104
204.44	7,231	20,313	204.96	7,642	24,180
204.45	7,239	20,385	204.97	7,650	24,257
204.46	7,247	20,458	204.98	7,658	24,333
204.47	7,255	20,530	204.99	7,666	24,410
204.48	7,263	20,603	205.00	7,674	24,487
204.49	7,271	20,676			
204.50	7,279	20,748			
204.51	7,286	20,821			
204.52	7,294	20,894			
204.53	7,302	20,967			
204.54	7,310	21,040			
204.55	7,318	21,113			
204.56	7,326	21,187			
204.57	7,334	21,260			
204.58	7,342	21,333			
204.59	7,350	21,407			
204.60	7,358	21,480			
204.61	7,366	21,554			
204.62	7,373	21,627			
204.63	7,381	21,701			

Summary for Pond B-13: Basin #13

Inflow Area = 2.350 ac, 62.43% Impervious, Inflow Depth = 3.95" for Current 10 yr event
 Inflow = 9.20 cfs @ 12.17 hrs, Volume= 0.774 af
 Outflow = 1.96 cfs @ 12.62 hrs, Volume= 0.564 af, Atten= 79%, Lag= 26.9 min
 Primary = 1.96 cfs @ 12.62 hrs, Volume= 0.564 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 194.22' @ 12.62 hrs Surf.Area= 9,841 sf Storage= 19,717 cf

Plug-Flow detention time= 543.9 min calculated for 0.564 af (73% of inflow)
 Center-of-Mass det. time= 448.5 min (1,222.0 - 773.4)

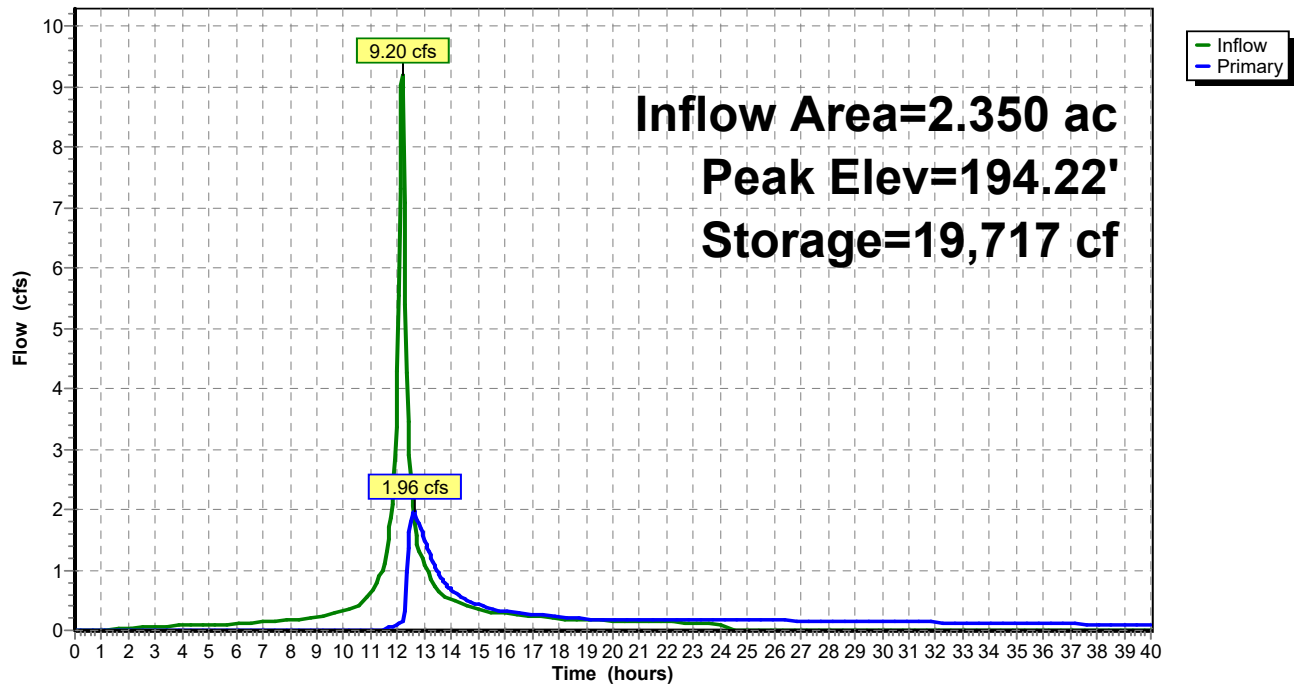
Volume	Invert	Avail.Storage	Storage Description
#1	192.00'	38,667 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
192.00	7,975	0	0
193.00	8,804	8,390	8,390
194.00	9,654	9,229	17,619
195.00	10,522	10,088	27,707
196.00	11,399	10,961	38,667

Device	Routing	Invert	Outlet Devices
#1	Primary	190.65'	18.0" Round Culvert L= 57.0' Ke= 0.500 Inlet / Outlet Invert= 190.65' / 188.00' S= 0.0465 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	192.70'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	193.95'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	194.96'	50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=1.95 cfs @ 12.62 hrs HW=194.21' (Free Discharge)

1=Culvert (Passes 1.95 cfs of 14.28 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.19 cfs @ 5.72 fps)
 3=Sharp-Crested Rectangular Weir (Weir Controls 1.76 cfs @ 1.68 fps)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-13: Basin #13**Hydrograph**

Stage-Discharge for Pond B-13: Basin #13

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
192.00	0.00	192.52	0.00	193.04	0.08	193.56	0.14
192.01	0.00	192.53	0.00	193.05	0.08	193.57	0.14
192.02	0.00	192.54	0.00	193.06	0.08	193.58	0.14
192.03	0.00	192.55	0.00	193.07	0.08	193.59	0.15
192.04	0.00	192.56	0.00	193.08	0.09	193.60	0.15
192.05	0.00	192.57	0.00	193.09	0.09	193.61	0.15
192.06	0.00	192.58	0.00	193.10	0.09	193.62	0.15
192.07	0.00	192.59	0.00	193.11	0.09	193.63	0.15
192.08	0.00	192.60	0.00	193.12	0.09	193.64	0.15
192.09	0.00	192.61	0.00	193.13	0.09	193.65	0.15
192.10	0.00	192.62	0.00	193.14	0.10	193.66	0.15
192.11	0.00	192.63	0.00	193.15	0.10	193.67	0.15
192.12	0.00	192.64	0.00	193.16	0.10	193.68	0.15
192.13	0.00	192.65	0.00	193.17	0.10	193.69	0.15
192.14	0.00	192.66	0.00	193.18	0.10	193.70	0.16
192.15	0.00	192.67	0.00	193.19	0.10	193.71	0.16
192.16	0.00	192.68	0.00	193.20	0.10	193.72	0.16
192.17	0.00	192.69	0.00	193.21	0.10	193.73	0.16
192.18	0.00	192.70	0.00	193.22	0.11	193.74	0.16
192.19	0.00	192.71	0.00	193.23	0.11	193.75	0.16
192.20	0.00	192.72	0.00	193.24	0.11	193.76	0.16
192.21	0.00	192.73	0.00	193.25	0.11	193.77	0.16
192.22	0.00	192.74	0.00	193.26	0.11	193.78	0.16
192.23	0.00	192.75	0.00	193.27	0.11	193.79	0.16
192.24	0.00	192.76	0.01	193.28	0.11	193.80	0.16
192.25	0.00	192.77	0.01	193.29	0.11	193.81	0.16
192.26	0.00	192.78	0.01	193.30	0.12	193.82	0.17
192.27	0.00	192.79	0.01	193.31	0.12	193.83	0.17
192.28	0.00	192.80	0.02	193.32	0.12	193.84	0.17
192.29	0.00	192.81	0.02	193.33	0.12	193.85	0.17
192.30	0.00	192.82	0.02	193.34	0.12	193.86	0.17
192.31	0.00	192.83	0.03	193.35	0.12	193.87	0.17
192.32	0.00	192.84	0.03	193.36	0.12	193.88	0.17
192.33	0.00	192.85	0.03	193.37	0.12	193.89	0.17
192.34	0.00	192.86	0.04	193.38	0.12	193.90	0.17
192.35	0.00	192.87	0.04	193.39	0.13	193.91	0.17
192.36	0.00	192.88	0.05	193.40	0.13	193.92	0.17
192.37	0.00	192.89	0.05	193.41	0.13	193.93	0.17
192.38	0.00	192.90	0.05	193.42	0.13	193.94	0.17
192.39	0.00	192.91	0.05	193.43	0.13	193.95	0.18
192.40	0.00	192.92	0.06	193.44	0.13	193.96	0.19
192.41	0.00	192.93	0.06	193.45	0.13	193.97	0.21
192.42	0.00	192.94	0.06	193.46	0.13	193.98	0.25
192.43	0.00	192.95	0.06	193.47	0.13	193.99	0.28
192.44	0.00	192.96	0.06	193.48	0.13	194.00	0.33
192.45	0.00	192.97	0.07	193.49	0.14	194.01	0.37
192.46	0.00	192.98	0.07	193.50	0.14	194.02	0.42
192.47	0.00	192.99	0.07	193.51	0.14	194.03	0.48
192.48	0.00	193.00	0.07	193.52	0.14	194.04	0.53
192.49	0.00	193.01	0.07	193.53	0.14	194.05	0.59
192.50	0.00	193.02	0.08	193.54	0.14	194.06	0.66
192.51	0.00	193.03	0.08	193.55	0.14	194.07	0.73

Stage-Discharge for Pond B-13: Basin #13 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
194.08	0.79	194.60	6.85	195.12	23.38	195.64	95.46
194.09	0.87	194.61	7.00	195.13	24.29	195.65	97.21
194.10	0.94	194.62	7.15	195.14	25.23	195.66	98.98
194.11	1.02	194.63	7.31	195.15	26.19	195.67	100.76
194.12	1.10	194.64	7.46	195.16	27.06	195.68	102.55
194.13	1.18	194.65	7.62	195.17	27.93	195.69	104.36
194.14	1.26	194.66	7.77	195.18	28.83	195.70	106.17
194.15	1.35	194.67	7.93	195.19	29.75	195.71	108.00
194.16	1.44	194.68	8.09	195.20	30.69	195.72	109.84
194.17	1.53	194.69	8.24	195.21	31.66	195.73	111.70
194.18	1.62	194.70	8.40	195.22	32.66	195.74	113.56
194.19	1.71	194.71	8.56	195.23	33.68	195.75	115.44
194.20	1.81	194.72	8.72	195.24	34.72	195.76	117.33
194.21	1.91	194.73	8.89	195.25	35.79	195.77	119.27
194.22	2.01	194.74	9.05	195.26	36.89	195.78	121.22
194.23	2.11	194.75	9.21	195.27	38.00	195.79	123.19
194.24	2.21	194.76	9.38	195.28	39.15	195.80	125.17
194.25	2.31	194.77	9.54	195.29	40.31	195.81	127.16
194.26	2.42	194.78	9.71	195.30	41.51	195.82	129.17
194.27	2.53	194.79	9.88	195.31	42.72	195.83	131.19
194.28	2.64	194.80	10.05	195.32	43.96	195.84	133.22
194.29	2.75	194.81	10.22	195.33	45.23	195.85	135.27
194.30	2.86	194.82	10.39	195.34	46.51	195.86	137.32
194.31	2.98	194.83	10.56	195.35	47.83	195.87	139.39
194.32	3.09	194.84	10.73	195.36	49.16	195.88	141.48
194.33	3.21	194.85	10.90	195.37	50.55	195.89	143.57
194.34	3.33	194.86	11.07	195.38	51.96	195.90	145.68
194.35	3.45	194.87	11.25	195.39	53.40	195.91	147.80
194.36	3.57	194.88	11.42	195.40	54.87	195.92	149.94
194.37	3.69	194.89	11.60	195.41	56.36	195.93	152.09
194.38	3.81	194.90	11.77	195.42	57.88	195.94	154.25
194.39	3.94	194.91	11.95	195.43	59.42	195.95	156.42
194.40	4.07	194.92	12.13	195.44	60.99	195.96	158.60
194.41	4.19	194.93	12.31	195.45	62.59	195.97	160.75
194.42	4.32	194.94	12.49	195.46	64.21	195.98	162.90
194.43	4.45	194.95	12.67	195.47	65.86	195.99	165.07
194.44	4.59	194.96	12.85	195.48	67.53	196.00	167.24
194.45	4.72	194.97	13.15	195.49	69.24		
194.46	4.85	194.98	13.54	195.50	70.97		
194.47	4.99	194.99	14.00	195.51	72.72		
194.48	5.13	195.00	14.52	195.52	74.50		
194.49	5.26	195.01	15.07	195.53	76.31		
194.50	5.40	195.02	15.67	195.54	78.15		
194.51	5.54	195.03	16.31	195.55	80.01		
194.52	5.68	195.04	16.98	195.56	81.90		
194.53	5.83	195.05	17.68	195.57	83.55		
194.54	5.97	195.06	18.41	195.58	85.21		
194.55	6.11	195.07	19.17	195.59	86.89		
194.56	6.26	195.08	19.96	195.60	88.58		
194.57	6.41	195.09	20.78	195.61	90.28		
194.58	6.55	195.10	21.62	195.62	91.99		
194.59	6.70	195.11	22.49	195.63	93.72		

Stage-Area-Storage for Pond B-13: Basin #13

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
192.00	7,975	0	192.52	8,406	4,259
192.01	7,983	80	192.53	8,414	4,343
192.02	7,992	160	192.54	8,423	4,427
192.03	8,000	240	192.55	8,431	4,512
192.04	8,008	320	192.56	8,439	4,596
192.05	8,016	400	192.57	8,448	4,680
192.06	8,025	480	192.58	8,456	4,765
192.07	8,033	560	192.59	8,464	4,850
192.08	8,041	641	192.60	8,472	4,934
192.09	8,050	721	192.61	8,481	5,019
192.10	8,058	802	192.62	8,489	5,104
192.11	8,066	882	192.63	8,497	5,189
192.12	8,074	963	192.64	8,506	5,274
192.13	8,083	1,044	192.65	8,514	5,359
192.14	8,091	1,125	192.66	8,522	5,444
192.15	8,099	1,206	192.67	8,530	5,529
192.16	8,108	1,287	192.68	8,539	5,615
192.17	8,116	1,368	192.69	8,547	5,700
192.18	8,124	1,449	192.70	8,555	5,786
192.19	8,133	1,530	192.71	8,564	5,871
192.20	8,141	1,612	192.72	8,572	5,957
192.21	8,149	1,693	192.73	8,580	6,043
192.22	8,157	1,775	192.74	8,588	6,128
192.23	8,166	1,856	192.75	8,597	6,214
192.24	8,174	1,938	192.76	8,605	6,300
192.25	8,182	2,020	192.77	8,613	6,387
192.26	8,191	2,102	192.78	8,622	6,473
192.27	8,199	2,183	192.79	8,630	6,559
192.28	8,207	2,265	192.80	8,638	6,645
192.29	8,215	2,348	192.81	8,646	6,732
192.30	8,224	2,430	192.82	8,655	6,818
192.31	8,232	2,512	192.83	8,663	6,905
192.32	8,240	2,594	192.84	8,671	6,991
192.33	8,249	2,677	192.85	8,680	7,078
192.34	8,257	2,759	192.86	8,688	7,165
192.35	8,265	2,842	192.87	8,696	7,252
192.36	8,273	2,925	192.88	8,705	7,339
192.37	8,282	3,007	192.89	8,713	7,426
192.38	8,290	3,090	192.90	8,721	7,513
192.39	8,298	3,173	192.91	8,729	7,600
192.40	8,307	3,256	192.92	8,738	7,688
192.41	8,315	3,339	192.93	8,746	7,775
192.42	8,323	3,423	192.94	8,754	7,863
192.43	8,331	3,506	192.95	8,763	7,950
192.44	8,340	3,589	192.96	8,771	8,038
192.45	8,348	3,673	192.97	8,779	8,126
192.46	8,356	3,756	192.98	8,787	8,214
192.47	8,365	3,840	192.99	8,796	8,302
192.48	8,373	3,924	193.00	8,804	8,390
192.49	8,381	4,007	193.01	8,812	8,478
192.50	8,390	4,091	193.02	8,821	8,566
192.51	8,398	4,175	193.03	8,830	8,654

Stage-Area-Storage for Pond B-13: Basin #13 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
193.04	8,838	8,742	193.56	9,280	13,453
193.05	8,847	8,831	193.57	9,288	13,546
193.06	8,855	8,919	193.58	9,297	13,639
193.07	8,863	9,008	193.59	9,306	13,732
193.08	8,872	9,097	193.60	9,314	13,825
193.09	8,881	9,185	193.61	9,323	13,918
193.10	8,889	9,274	193.62	9,331	14,011
193.11	8,898	9,363	193.63	9,339	14,105
193.12	8,906	9,452	193.64	9,348	14,198
193.13	8,914	9,541	193.65	9,357	14,292
193.14	8,923	9,630	193.66	9,365	14,385
193.15	8,932	9,720	193.67	9,373	14,479
193.16	8,940	9,809	193.68	9,382	14,573
193.17	8,948	9,898	193.69	9,390	14,667
193.18	8,957	9,988	193.70	9,399	14,761
193.19	8,965	10,078	193.71	9,408	14,855
193.20	8,974	10,167	193.72	9,416	14,949
193.21	8,983	10,257	193.73	9,424	15,043
193.22	8,991	10,347	193.74	9,433	15,137
193.23	8,999	10,437	193.75	9,442	15,232
193.24	9,008	10,527	193.76	9,450	15,326
193.25	9,017	10,617	193.77	9,459	15,421
193.26	9,025	10,707	193.78	9,467	15,515
193.27	9,034	10,798	193.79	9,475	15,610
193.28	9,042	10,888	193.80	9,484	15,705
193.29	9,050	10,978	193.81	9,493	15,800
193.30	9,059	11,069	193.82	9,501	15,895
193.31	9,068	11,160	193.83	9,510	15,990
193.32	9,076	11,250	193.84	9,518	16,085
193.33	9,085	11,341	193.85	9,526	16,180
193.34	9,093	11,432	193.86	9,535	16,275
193.35	9,101	11,523	193.87	9,544	16,371
193.36	9,110	11,614	193.88	9,552	16,466
193.37	9,119	11,705	193.89	9,560	16,562
193.38	9,127	11,796	193.90	9,569	16,657
193.39	9,135	11,888	193.91	9,577	16,753
193.40	9,144	11,979	193.92	9,586	16,849
193.41	9,152	12,071	193.93	9,595	16,945
193.42	9,161	12,162	193.94	9,603	17,041
193.43	9,170	12,254	193.95	9,611	17,137
193.44	9,178	12,346	193.96	9,620	17,233
193.45	9,186	12,437	193.97	9,628	17,329
193.46	9,195	12,529	193.98	9,637	17,426
193.47	9,203	12,621	193.99	9,646	17,522
193.48	9,212	12,713	194.00	9,654	17,619
193.49	9,221	12,806	194.01	9,663	17,715
193.50	9,229	12,898	194.02	9,671	17,812
193.51	9,237	12,990	194.03	9,680	17,909
193.52	9,246	13,083	194.04	9,689	18,005
193.53	9,255	13,175	194.05	9,697	18,102
193.54	9,263	13,268	194.06	9,706	18,199
193.55	9,272	13,360	194.07	9,715	18,296

Stage-Area-Storage for Pond B-13: Basin #13 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
194.08	9,723	18,394	194.60	10,175	23,567
194.09	9,732	18,491	194.61	10,183	23,669
194.10	9,741	18,588	194.62	10,192	23,771
194.11	9,749	18,686	194.63	10,201	23,873
194.12	9,758	18,783	194.64	10,210	23,975
194.13	9,767	18,881	194.65	10,218	24,077
194.14	9,776	18,979	194.66	10,227	24,179
194.15	9,784	19,076	194.67	10,236	24,282
194.16	9,793	19,174	194.68	10,244	24,384
194.17	9,802	19,272	194.69	10,253	24,486
194.18	9,810	19,370	194.70	10,262	24,589
194.19	9,819	19,468	194.71	10,270	24,692
194.20	9,828	19,567	194.72	10,279	24,794
194.21	9,836	19,665	194.73	10,288	24,897
194.22	9,845	19,763	194.74	10,296	25,000
194.23	9,854	19,862	194.75	10,305	25,103
194.24	9,862	19,960	194.76	10,314	25,206
194.25	9,871	20,059	194.77	10,322	25,309
194.26	9,880	20,158	194.78	10,331	25,413
194.27	9,888	20,257	194.79	10,340	25,516
194.28	9,897	20,356	194.80	10,348	25,619
194.29	9,906	20,455	194.81	10,357	25,723
194.30	9,914	20,554	194.82	10,366	25,827
194.31	9,923	20,653	194.83	10,374	25,930
194.32	9,932	20,752	194.84	10,383	26,034
194.33	9,940	20,852	194.85	10,392	26,138
194.34	9,949	20,951	194.86	10,400	26,242
194.35	9,958	21,051	194.87	10,409	26,346
194.36	9,966	21,150	194.88	10,418	26,450
194.37	9,975	21,250	194.89	10,427	26,554
194.38	9,984	21,350	194.90	10,435	26,659
194.39	9,993	21,450	194.91	10,444	26,763
194.40	10,001	21,550	194.92	10,453	26,868
194.41	10,010	21,650	194.93	10,461	26,972
194.42	10,019	21,750	194.94	10,470	27,077
194.43	10,027	21,850	194.95	10,479	27,181
194.44	10,036	21,950	194.96	10,487	27,286
194.45	10,045	22,051	194.97	10,496	27,391
194.46	10,053	22,151	194.98	10,505	27,496
194.47	10,062	22,252	194.99	10,513	27,601
194.48	10,071	22,352	195.00	10,522	27,707
194.49	10,079	22,453	195.01	10,531	27,812
194.50	10,088	22,554	195.02	10,540	27,917
194.51	10,097	22,655	195.03	10,548	28,023
194.52	10,105	22,756	195.04	10,557	28,128
194.53	10,114	22,857	195.05	10,566	28,234
194.54	10,123	22,958	195.06	10,575	28,339
194.55	10,131	23,059	195.07	10,583	28,445
194.56	10,140	23,161	195.08	10,592	28,551
194.57	10,149	23,262	195.09	10,601	28,657
194.58	10,157	23,364	195.10	10,610	28,763
194.59	10,166	23,465	195.11	10,618	28,869

Stage-Area-Storage for Pond B-13: Basin #13 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
195.12	10,627	28,975	195.64	11,083	34,620
195.13	10,636	29,082	195.65	11,092	34,731
195.14	10,645	29,188	195.66	11,101	34,842
195.15	10,654	29,295	195.67	11,110	34,953
195.16	10,662	29,401	195.68	11,118	35,064
195.17	10,671	29,508	195.69	11,127	35,175
195.18	10,680	29,615	195.70	11,136	35,287
195.19	10,689	29,722	195.71	11,145	35,398
195.20	10,697	29,828	195.72	11,153	35,510
195.21	10,706	29,935	195.73	11,162	35,621
195.22	10,715	30,043	195.74	11,171	35,733
195.23	10,724	30,150	195.75	11,180	35,845
195.24	10,732	30,257	195.76	11,189	35,956
195.25	10,741	30,364	195.77	11,197	36,068
195.26	10,750	30,472	195.78	11,206	36,180
195.27	10,759	30,579	195.79	11,215	36,293
195.28	10,768	30,687	195.80	11,224	36,405
195.29	10,776	30,795	195.81	11,232	36,517
195.30	10,785	30,903	195.82	11,241	36,629
195.31	10,794	31,010	195.83	11,250	36,742
195.32	10,803	31,118	195.84	11,259	36,854
195.33	10,811	31,227	195.85	11,267	36,967
195.34	10,820	31,335	195.86	11,276	37,080
195.35	10,829	31,443	195.87	11,285	37,193
195.36	10,838	31,551	195.88	11,294	37,305
195.37	10,846	31,660	195.89	11,303	37,418
195.38	10,855	31,768	195.90	11,311	37,531
195.39	10,864	31,877	195.91	11,320	37,645
195.40	10,873	31,985	195.92	11,329	37,758
195.41	10,882	32,094	195.93	11,338	37,871
195.42	10,890	32,203	195.94	11,346	37,985
195.43	10,899	32,312	195.95	11,355	38,098
195.44	10,908	32,421	195.96	11,364	38,212
195.45	10,917	32,530	195.97	11,373	38,325
195.46	10,925	32,639	195.98	11,381	38,439
195.47	10,934	32,749	195.99	11,390	38,553
195.48	10,943	32,858	196.00	11,399	38,667
195.49	10,952	32,968			
195.50	10,961	33,077			
195.51	10,969	33,187			
195.52	10,978	33,297			
195.53	10,987	33,406			
195.54	10,996	33,516			
195.55	11,004	33,626			
195.56	11,013	33,736			
195.57	11,022	33,847			
195.58	11,031	33,957			
195.59	11,039	34,067			
195.60	11,048	34,178			
195.61	11,057	34,288			
195.62	11,066	34,399			
195.63	11,075	34,509			

Summary for Pond B-14: Basin #14

Inflow Area = 2.148 ac, 23.65% Impervious, Inflow Depth = 3.02" for Current 10 yr event
 Inflow = 6.79 cfs @ 12.17 hrs, Volume= 0.540 af
 Outflow = 1.29 cfs @ 12.69 hrs, Volume= 0.436 af, Atten= 81%, Lag= 30.8 min
 Primary = 1.29 cfs @ 12.69 hrs, Volume= 0.436 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 193.65' @ 12.69 hrs Surf.Area= 8,195 sf Storage= 12,690 cf

Plug-Flow detention time= 508.1 min calculated for 0.436 af (81% of inflow)
 Center-of-Mass det. time= 427.9 min (1,236.7 - 808.7)

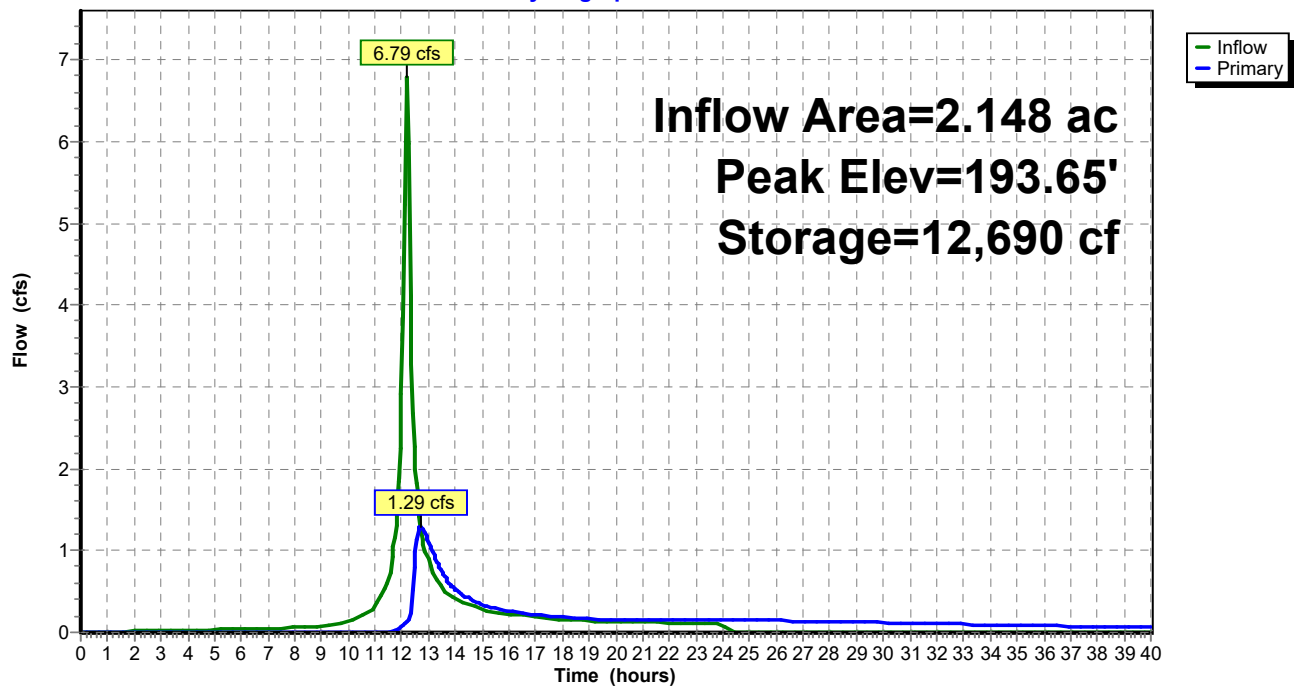
Volume	Invert	Avail.Storage	Storage Description
#1	192.00'	24,345 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
192.00	7,240	0	0
193.00	7,814	7,527	7,527
194.00	8,405	8,110	15,637
195.00	9,012	8,709	24,345

Device	Routing	Invert	Outlet Devices
#1	Primary	190.65'	18.0" Round Culvert L= 194.0' Ke= 0.500 Inlet / Outlet Invert= 190.65' / 188.00' S= 0.0137 ' / Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	192.40'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	193.45'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	194.44'	50.0' long + 3.0 ' / SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=1.29 cfs @ 12.69 hrs HW=193.64' (Free Discharge)

1=Culvert (Passes 1.29 cfs of 12.75 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.18 cfs @ 5.14 fps)
 3=Sharp-Crested Rectangular Weir(Weir Controls 1.11 cfs @ 1.44 fps)
 4=Broad-Crested Rectangular Weir(Controls 0.00 cfs)

Pond B-14: Basin #14**Hydrograph**

Stage-Discharge for Pond B-14: Basin #14

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
192.00	0.00	192.52	0.02	193.04	0.12	193.56	0.64
192.01	0.00	192.53	0.03	193.05	0.12	193.57	0.71
192.02	0.00	192.54	0.03	193.06	0.12	193.58	0.78
192.03	0.00	192.55	0.03	193.07	0.12	193.59	0.85
192.04	0.00	192.56	0.04	193.08	0.12	193.60	0.93
192.05	0.00	192.57	0.04	193.09	0.13	193.61	1.00
192.06	0.00	192.58	0.05	193.10	0.13	193.62	1.08
192.07	0.00	192.59	0.05	193.11	0.13	193.63	1.16
192.08	0.00	192.60	0.05	193.12	0.13	193.64	1.25
192.09	0.00	192.61	0.05	193.13	0.13	193.65	1.33
192.10	0.00	192.62	0.06	193.14	0.13	193.66	1.42
192.11	0.00	192.63	0.06	193.15	0.13	193.67	1.51
192.12	0.00	192.64	0.06	193.16	0.13	193.68	1.60
192.13	0.00	192.65	0.06	193.17	0.13	193.69	1.70
192.14	0.00	192.66	0.06	193.18	0.13	193.70	1.79
192.15	0.00	192.67	0.07	193.19	0.14	193.71	1.89
192.16	0.00	192.68	0.07	193.20	0.14	193.72	1.99
192.17	0.00	192.69	0.07	193.21	0.14	193.73	2.09
192.18	0.00	192.70	0.07	193.22	0.14	193.74	2.20
192.19	0.00	192.71	0.07	193.23	0.14	193.75	2.30
192.20	0.00	192.72	0.08	193.24	0.14	193.76	2.41
192.21	0.00	192.73	0.08	193.25	0.14	193.77	2.51
192.22	0.00	192.74	0.08	193.26	0.14	193.78	2.62
192.23	0.00	192.75	0.08	193.27	0.14	193.79	2.74
192.24	0.00	192.76	0.08	193.28	0.14	193.80	2.85
192.25	0.00	192.77	0.08	193.29	0.15	193.81	2.96
192.26	0.00	192.78	0.09	193.30	0.15	193.82	3.08
192.27	0.00	192.79	0.09	193.31	0.15	193.83	3.19
192.28	0.00	192.80	0.09	193.32	0.15	193.84	3.31
192.29	0.00	192.81	0.09	193.33	0.15	193.85	3.43
192.30	0.00	192.82	0.09	193.34	0.15	193.86	3.55
192.31	0.00	192.83	0.09	193.35	0.15	193.87	3.68
192.32	0.00	192.84	0.10	193.36	0.15	193.88	3.80
192.33	0.00	192.85	0.10	193.37	0.15	193.89	3.93
192.34	0.00	192.86	0.10	193.38	0.15	193.90	4.05
192.35	0.00	192.87	0.10	193.39	0.15	193.91	4.18
192.36	0.00	192.88	0.10	193.40	0.16	193.92	4.31
192.37	0.00	192.89	0.10	193.41	0.16	193.93	4.44
192.38	0.00	192.90	0.10	193.42	0.16	193.94	4.57
192.39	0.00	192.91	0.10	193.43	0.16	193.95	4.71
192.40	0.00	192.92	0.11	193.44	0.16	193.96	4.84
192.41	0.00	192.93	0.11	193.45	0.16	193.97	4.98
192.42	0.00	192.94	0.11	193.46	0.17	193.98	5.11
192.43	0.00	192.95	0.11	193.47	0.20	193.99	5.25
192.44	0.00	192.96	0.11	193.48	0.23	194.00	5.39
192.45	0.00	192.97	0.11	193.49	0.27	194.01	5.53
192.46	0.01	192.98	0.11	193.50	0.31	194.02	5.67
192.47	0.01	192.99	0.11	193.51	0.36	194.03	5.81
192.48	0.01	193.00	0.12	193.52	0.41	194.04	5.96
192.49	0.01	193.01	0.12	193.53	0.46	194.05	6.10
192.50	0.02	193.02	0.12	193.54	0.52	194.06	6.25
192.51	0.02	193.03	0.12	193.55	0.58	194.07	6.39

Stage-Discharge for Pond B-14: Basin #14 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
194.08	6.54	194.60	21.80
194.09	6.69	194.61	22.54
194.10	6.84	194.62	23.29
194.11	6.99	194.63	24.07
194.12	7.14	194.64	24.88
194.13	7.29	194.65	25.74
194.14	7.45	194.66	26.62
194.15	7.60	194.67	27.53
194.16	7.76	194.68	28.47
194.17	7.92	194.69	29.43
194.18	8.07	194.70	30.42
194.19	8.23	194.71	31.43
194.20	8.39	194.72	32.47
194.21	8.55	194.73	33.53
194.22	8.71	194.74	34.62
194.23	8.87	194.75	35.73
194.24	9.04	194.76	36.86
194.25	9.20	194.77	38.02
194.26	9.37	194.78	39.21
194.27	9.53	194.79	40.41
194.28	9.70	194.80	41.65
194.29	9.87	194.81	42.90
194.30	10.03	194.82	44.18
194.31	10.20	194.83	45.49
194.32	10.37	194.84	46.82
194.33	10.54	194.85	48.20
194.34	10.72	194.86	49.60
194.35	10.89	194.87	51.03
194.36	11.06	194.88	52.49
194.37	11.24	194.89	53.97
194.38	11.41	194.90	55.48
194.39	11.59	194.91	57.02
194.40	11.76	194.92	58.58
194.41	11.94	194.93	60.17
194.42	12.12	194.94	61.79
194.43	12.30	194.95	63.43
194.44	12.47	194.96	65.10
194.45	12.77	194.97	66.79
194.46	13.17	194.98	68.51
194.47	13.63	194.99	70.26
194.48	14.14	195.00	72.04
194.49	14.69		
194.50	15.29		
194.51	15.92		
194.52	16.59		
194.53	17.29		
194.54	17.89		
194.55	18.48		
194.56	19.09		
194.57	19.73		
194.58	20.40		
194.59	21.09		

Stage-Area-Storage for Pond B-14: Basin #14

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
192.00	7,240	0	192.52	7,538	3,842
192.01	7,246	72	192.53	7,544	3,918
192.02	7,251	145	192.54	7,550	3,993
192.03	7,257	217	192.55	7,556	4,069
192.04	7,263	290	192.56	7,561	4,144
192.05	7,269	363	192.57	7,567	4,220
192.06	7,274	435	192.58	7,573	4,296
192.07	7,280	508	192.59	7,579	4,372
192.08	7,286	581	192.60	7,584	4,447
192.09	7,292	654	192.61	7,590	4,523
192.10	7,297	727	192.62	7,596	4,599
192.11	7,303	800	192.63	7,602	4,675
192.12	7,309	873	192.64	7,607	4,751
192.13	7,315	946	192.65	7,613	4,827
192.14	7,320	1,019	192.66	7,619	4,903
192.15	7,326	1,092	192.67	7,625	4,980
192.16	7,332	1,166	192.68	7,630	5,056
192.17	7,338	1,239	192.69	7,636	5,132
192.18	7,343	1,312	192.70	7,642	5,209
192.19	7,349	1,386	192.71	7,648	5,285
192.20	7,355	1,459	192.72	7,653	5,362
192.21	7,361	1,533	192.73	7,659	5,438
192.22	7,366	1,607	192.74	7,665	5,515
192.23	7,372	1,680	192.75	7,671	5,591
192.24	7,378	1,754	192.76	7,676	5,668
192.25	7,384	1,828	192.77	7,682	5,745
192.26	7,389	1,902	192.78	7,688	5,822
192.27	7,395	1,976	192.79	7,693	5,899
192.28	7,401	2,050	192.80	7,699	5,976
192.29	7,406	2,124	192.81	7,705	6,053
192.30	7,412	2,198	192.82	7,711	6,130
192.31	7,418	2,272	192.83	7,716	6,207
192.32	7,424	2,346	192.84	7,722	6,284
192.33	7,429	2,420	192.85	7,728	6,361
192.34	7,435	2,495	192.86	7,734	6,439
192.35	7,441	2,569	192.87	7,739	6,516
192.36	7,447	2,644	192.88	7,745	6,593
192.37	7,452	2,718	192.89	7,751	6,671
192.38	7,458	2,793	192.90	7,757	6,748
192.39	7,464	2,867	192.91	7,762	6,826
192.40	7,470	2,942	192.92	7,768	6,904
192.41	7,475	3,017	192.93	7,774	6,981
192.42	7,481	3,091	192.94	7,780	7,059
192.43	7,487	3,166	192.95	7,785	7,137
192.44	7,493	3,241	192.96	7,791	7,215
192.45	7,498	3,316	192.97	7,797	7,293
192.46	7,504	3,391	192.98	7,803	7,371
192.47	7,510	3,466	192.99	7,808	7,449
192.48	7,516	3,541	193.00	7,814	7,527
192.49	7,521	3,617	193.01	7,820	7,605
192.50	7,527	3,692	193.02	7,826	7,683
192.51	7,533	3,767	193.03	7,832	7,762

Stage-Area-Storage for Pond B-14: Basin #14 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
193.04	7,838	7,840	193.56	8,145	11,996
193.05	7,844	7,918	193.57	8,151	12,077
193.06	7,849	7,997	193.58	8,157	12,159
193.07	7,855	8,075	193.59	8,163	12,240
193.08	7,861	8,154	193.60	8,169	12,322
193.09	7,867	8,233	193.61	8,175	12,403
193.10	7,873	8,311	193.62	8,180	12,485
193.11	7,879	8,390	193.63	8,186	12,567
193.12	7,885	8,469	193.64	8,192	12,649
193.13	7,891	8,548	193.65	8,198	12,731
193.14	7,897	8,627	193.66	8,204	12,813
193.15	7,903	8,706	193.67	8,210	12,895
193.16	7,909	8,785	193.68	8,216	12,977
193.17	7,914	8,864	193.69	8,222	13,059
193.18	7,920	8,943	193.70	8,228	13,142
193.19	7,926	9,022	193.71	8,234	13,224
193.20	7,932	9,102	193.72	8,240	13,306
193.21	7,938	9,181	193.73	8,245	13,389
193.22	7,944	9,260	193.74	8,251	13,471
193.23	7,950	9,340	193.75	8,257	13,554
193.24	7,956	9,419	193.76	8,263	13,636
193.25	7,962	9,499	193.77	8,269	13,719
193.26	7,968	9,579	193.78	8,275	13,802
193.27	7,974	9,658	193.79	8,281	13,884
193.28	7,979	9,738	193.80	8,287	13,967
193.29	7,985	9,818	193.81	8,293	14,050
193.30	7,991	9,898	193.82	8,299	14,133
193.31	7,997	9,978	193.83	8,305	14,216
193.32	8,003	10,058	193.84	8,310	14,299
193.33	8,009	10,138	193.85	8,316	14,382
193.34	8,015	10,218	193.86	8,322	14,466
193.35	8,021	10,298	193.87	8,328	14,549
193.36	8,027	10,378	193.88	8,334	14,632
193.37	8,033	10,459	193.89	8,340	14,716
193.38	8,039	10,539	193.90	8,346	14,799
193.39	8,044	10,619	193.91	8,352	14,882
193.40	8,050	10,700	193.92	8,358	14,966
193.41	8,056	10,780	193.93	8,364	15,050
193.42	8,062	10,861	193.94	8,370	15,133
193.43	8,068	10,942	193.95	8,375	15,217
193.44	8,074	11,022	193.96	8,381	15,301
193.45	8,080	11,103	193.97	8,387	15,385
193.46	8,086	11,184	193.98	8,393	15,469
193.47	8,092	11,265	193.99	8,399	15,552
193.48	8,098	11,346	194.00	8,405	15,637
193.49	8,104	11,427	194.01	8,411	15,721
193.50	8,110	11,508	194.02	8,417	15,805
193.51	8,115	11,589	194.03	8,423	15,889
193.52	8,121	11,670	194.04	8,429	15,973
193.53	8,127	11,751	194.05	8,435	16,058
193.54	8,133	11,833	194.06	8,441	16,142
193.55	8,139	11,914	194.07	8,447	16,226

Stage-Area-Storage for Pond B-14: Basin #14 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
194.08	8,454	16,311	194.60	8,769	20,789
194.09	8,460	16,395	194.61	8,775	20,876
194.10	8,466	16,480	194.62	8,781	20,964
194.11	8,472	16,565	194.63	8,787	21,052
194.12	8,478	16,649	194.64	8,793	21,140
194.13	8,484	16,734	194.65	8,800	21,228
194.14	8,490	16,819	194.66	8,806	21,316
194.15	8,496	16,904	194.67	8,812	21,404
194.16	8,502	16,989	194.68	8,818	21,492
194.17	8,508	17,074	194.69	8,824	21,580
194.18	8,514	17,159	194.70	8,830	21,669
194.19	8,520	17,244	194.71	8,836	21,757
194.20	8,526	17,330	194.72	8,842	21,845
194.21	8,532	17,415	194.73	8,848	21,934
194.22	8,539	17,500	194.74	8,854	22,022
194.23	8,545	17,586	194.75	8,860	22,111
194.24	8,551	17,671	194.76	8,866	22,200
194.25	8,557	17,757	194.77	8,872	22,288
194.26	8,563	17,842	194.78	8,878	22,377
194.27	8,569	17,928	194.79	8,885	22,466
194.28	8,575	18,014	194.80	8,891	22,555
194.29	8,581	18,099	194.81	8,897	22,644
194.30	8,587	18,185	194.82	8,903	22,733
194.31	8,593	18,271	194.83	8,909	22,822
194.32	8,599	18,357	194.84	8,915	22,911
194.33	8,605	18,443	194.85	8,921	23,000
194.34	8,611	18,529	194.86	8,927	23,089
194.35	8,617	18,615	194.87	8,933	23,179
194.36	8,624	18,702	194.88	8,939	23,268
194.37	8,630	18,788	194.89	8,945	23,357
194.38	8,636	18,874	194.90	8,951	23,447
194.39	8,642	18,961	194.91	8,957	23,536
194.40	8,648	19,047	194.92	8,963	23,626
194.41	8,654	19,134	194.93	8,970	23,716
194.42	8,660	19,220	194.94	8,976	23,805
194.43	8,666	19,307	194.95	8,982	23,895
194.44	8,672	19,393	194.96	8,988	23,985
194.45	8,678	19,480	194.97	8,994	24,075
194.46	8,684	19,567	194.98	9,000	24,165
194.47	8,690	19,654	194.99	9,006	24,255
194.48	8,696	19,741	195.00	9,012	24,345
194.49	8,702	19,828			
194.50	8,709	19,915			
194.51	8,715	20,002			
194.52	8,721	20,089			
194.53	8,727	20,176			
194.54	8,733	20,264			
194.55	8,739	20,351			
194.56	8,745	20,438			
194.57	8,751	20,526			
194.58	8,757	20,613			
194.59	8,763	20,701			

Summary for Pond B-15: Basin #15

Inflow Area = 2.365 ac, 58.73% Impervious, Inflow Depth = 3.86" for Current 10 yr event
 Inflow = 9.08 cfs @ 12.17 hrs, Volume= 0.762 af
 Outflow = 5.62 cfs @ 12.30 hrs, Volume= 0.634 af, Atten= 38%, Lag= 7.8 min
 Primary = 5.62 cfs @ 12.30 hrs, Volume= 0.634 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 199.06' @ 12.30 hrs Surf.Area= 5,423 sf Storage= 13,916 cf

Plug-Flow detention time= 197.8 min calculated for 0.633 af (83% of inflow)
 Center-of-Mass det. time= 125.1 min (901.2 - 776.1)

Volume	Invert	Avail.Storage	Storage Description
#1	196.00'	19,269 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
196.00	3,706	0	0
197.00	4,236	3,971	3,971
198.00	4,795	4,516	8,487
199.00	5,384	5,090	13,576
200.00	6,002	5,693	19,269

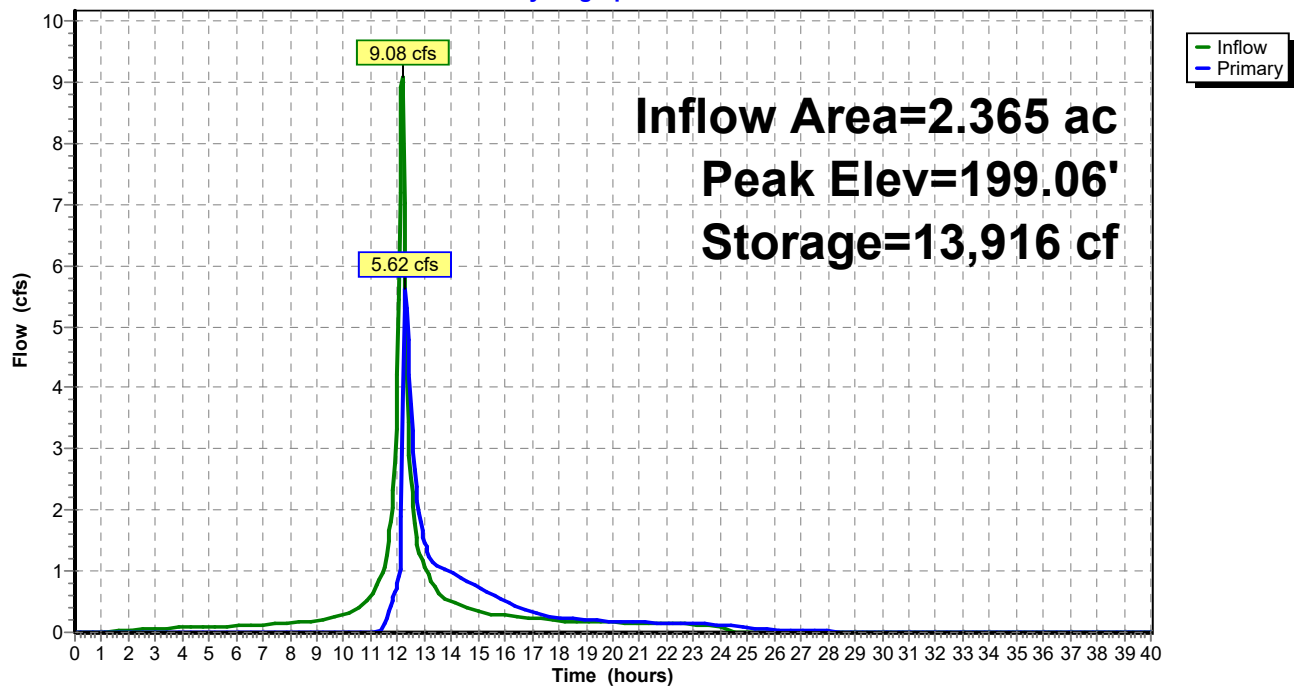
Device	Routing	Invert	Outlet Devices
#1	Primary	194.65'	18.0" Round Culvert L= 203.0' Ke= 0.500 Inlet / Outlet Invert= 194.65' / 192.00' S= 0.0131 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	197.35'	6.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	198.58'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	199.99'	50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=5.61 cfs @ 12.30 hrs HW=199.06' (Free Discharge)

1=Culvert (Passes 5.61 cfs of 14.65 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 1.33 cfs @ 5.78 fps)
 3=Sharp-Crested Rectangular Weir (Weir Controls 4.28 cfs @ 2.27 fps)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-15: Basin #15

Hydrograph



Stage-Discharge for Pond B-15: Basin #15

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
196.00	0.00	196.52	0.00	197.04	0.00	197.56	0.13
196.01	0.00	196.53	0.00	197.05	0.00	197.57	0.14
196.02	0.00	196.54	0.00	197.06	0.00	197.58	0.15
196.03	0.00	196.55	0.00	197.07	0.00	197.59	0.16
196.04	0.00	196.56	0.00	197.08	0.00	197.60	0.18
196.05	0.00	196.57	0.00	197.09	0.00	197.61	0.19
196.06	0.00	196.58	0.00	197.10	0.00	197.62	0.20
196.07	0.00	196.59	0.00	197.11	0.00	197.63	0.22
196.08	0.00	196.60	0.00	197.12	0.00	197.64	0.23
196.09	0.00	196.61	0.00	197.13	0.00	197.65	0.24
196.10	0.00	196.62	0.00	197.14	0.00	197.66	0.26
196.11	0.00	196.63	0.00	197.15	0.00	197.67	0.27
196.12	0.00	196.64	0.00	197.16	0.00	197.68	0.29
196.13	0.00	196.65	0.00	197.17	0.00	197.69	0.30
196.14	0.00	196.66	0.00	197.18	0.00	197.70	0.32
196.15	0.00	196.67	0.00	197.19	0.00	197.71	0.33
196.16	0.00	196.68	0.00	197.20	0.00	197.72	0.35
196.17	0.00	196.69	0.00	197.21	0.00	197.73	0.36
196.18	0.00	196.70	0.00	197.22	0.00	197.74	0.38
196.19	0.00	196.71	0.00	197.23	0.00	197.75	0.39
196.20	0.00	196.72	0.00	197.24	0.00	197.76	0.41
196.21	0.00	196.73	0.00	197.25	0.00	197.77	0.42
196.22	0.00	196.74	0.00	197.26	0.00	197.78	0.44
196.23	0.00	196.75	0.00	197.27	0.00	197.79	0.45
196.24	0.00	196.76	0.00	197.28	0.00	197.80	0.47
196.25	0.00	196.77	0.00	197.29	0.00	197.81	0.48
196.26	0.00	196.78	0.00	197.30	0.00	197.82	0.50
196.27	0.00	196.79	0.00	197.31	0.00	197.83	0.51
196.28	0.00	196.80	0.00	197.32	0.00	197.84	0.52
196.29	0.00	196.81	0.00	197.33	0.00	197.85	0.54
196.30	0.00	196.82	0.00	197.34	0.00	197.86	0.55
196.31	0.00	196.83	0.00	197.35	0.00	197.87	0.56
196.32	0.00	196.84	0.00	197.36	0.00	197.88	0.57
196.33	0.00	196.85	0.00	197.37	0.00	197.89	0.58
196.34	0.00	196.86	0.00	197.38	0.00	197.90	0.59
196.35	0.00	196.87	0.00	197.39	0.01	197.91	0.60
196.36	0.00	196.88	0.00	197.40	0.01	197.92	0.61
196.37	0.00	196.89	0.00	197.41	0.01	197.93	0.62
196.38	0.00	196.90	0.00	197.42	0.02	197.94	0.63
196.39	0.00	196.91	0.00	197.43	0.02	197.95	0.64
196.40	0.00	196.92	0.00	197.44	0.03	197.96	0.65
196.41	0.00	196.93	0.00	197.45	0.03	197.97	0.66
196.42	0.00	196.94	0.00	197.46	0.04	197.98	0.66
196.43	0.00	196.95	0.00	197.47	0.04	197.99	0.67
196.44	0.00	196.96	0.00	197.48	0.05	198.00	0.68
196.45	0.00	196.97	0.00	197.49	0.06	198.01	0.69
196.46	0.00	196.98	0.00	197.50	0.07	198.02	0.70
196.47	0.00	196.99	0.00	197.51	0.08	198.03	0.71
196.48	0.00	197.00	0.00	197.52	0.09	198.04	0.72
196.49	0.00	197.01	0.00	197.53	0.10	198.05	0.73
196.50	0.00	197.02	0.00	197.54	0.11	198.06	0.74
196.51	0.00	197.03	0.00	197.55	0.12	198.07	0.74

Stage-Discharge for Pond B-15: Basin #15 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
198.08	0.75	198.60	1.13	199.12	6.41	199.64	15.09
198.09	0.76	198.61	1.17	199.13	6.55	199.65	15.28
198.10	0.77	198.62	1.21	199.14	6.70	199.66	15.42
198.11	0.78	198.63	1.26	199.15	6.84	199.67	15.43
198.12	0.78	198.64	1.31	199.16	6.99	199.68	15.44
198.13	0.79	198.65	1.37	199.17	7.13	199.69	15.45
198.14	0.80	198.66	1.43	199.18	7.28	199.70	15.47
198.15	0.81	198.67	1.49	199.19	7.43	199.71	15.48
198.16	0.81	198.68	1.55	199.20	7.58	199.72	15.49
198.17	0.82	198.69	1.62	199.21	7.73	199.73	15.50
198.18	0.83	198.70	1.69	199.22	7.89	199.74	15.52
198.19	0.84	198.71	1.77	199.23	8.04	199.75	15.53
198.20	0.84	198.72	1.84	199.24	8.19	199.76	15.54
198.21	0.85	198.73	1.92	199.25	8.35	199.77	15.55
198.22	0.86	198.74	2.00	199.26	8.51	199.78	15.57
198.23	0.87	198.75	2.09	199.27	8.66	199.79	15.58
198.24	0.87	198.76	2.17	199.28	8.82	199.80	15.59
198.25	0.88	198.77	2.26	199.29	8.98	199.81	15.60
198.26	0.89	198.78	2.35	199.30	9.14	199.82	15.62
198.27	0.89	198.79	2.45	199.31	9.30	199.83	15.63
198.28	0.90	198.80	2.54	199.32	9.46	199.84	15.64
198.29	0.91	198.81	2.64	199.33	9.63	199.85	15.65
198.30	0.91	198.82	2.73	199.34	9.79	199.86	15.66
198.31	0.92	198.83	2.83	199.35	9.96	199.87	15.68
198.32	0.93	198.84	2.94	199.36	10.12	199.88	15.69
198.33	0.93	198.85	3.04	199.37	10.29	199.89	15.70
198.34	0.94	198.86	3.15	199.38	10.46	199.90	15.71
198.35	0.95	198.87	3.25	199.39	10.62	199.91	15.73
198.36	0.95	198.88	3.36	199.40	10.79	199.92	15.74
198.37	0.96	198.89	3.47	199.41	10.96	199.93	15.75
198.38	0.97	198.90	3.58	199.42	11.14	199.94	15.76
198.39	0.97	198.91	3.70	199.43	11.31	199.95	15.78
198.40	0.98	198.92	3.81	199.44	11.48	199.96	15.79
198.41	0.99	198.93	3.93	199.45	11.65	199.97	15.80
198.42	0.99	198.94	4.05	199.46	11.83	199.98	15.81
198.43	1.00	198.95	4.17	199.47	12.00	199.99	15.82
198.44	1.00	198.96	4.29	199.48	12.18	200.00	15.95
198.45	1.01	198.97	4.41	199.49	12.35		
198.46	1.02	198.98	4.54	199.50	12.53		
198.47	1.02	198.99	4.66	199.51	12.71		
198.48	1.03	199.00	4.79	199.52	12.89		
198.49	1.03	199.01	4.92	199.53	13.07		
198.50	1.04	199.02	5.05	199.54	13.25		
198.51	1.05	199.03	5.18	199.55	13.43		
198.52	1.05	199.04	5.31	199.56	13.61		
198.53	1.06	199.05	5.44	199.57	13.80		
198.54	1.06	199.06	5.58	199.58	13.98		
198.55	1.07	199.07	5.71	199.59	14.16		
198.56	1.08	199.08	5.85	199.60	14.35		
198.57	1.08	199.09	5.99	199.61	14.53		
198.58	1.09	199.10	6.13	199.62	14.72		
198.59	1.11	199.11	6.27	199.63	14.91		

Stage-Area-Storage for Pond B-15: Basin #15

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
196.00	3,706	0	196.52	3,982	1,999
196.01	3,711	37	196.53	3,987	2,039
196.02	3,717	74	196.54	3,992	2,079
196.03	3,722	111	196.55	3,998	2,118
196.04	3,727	149	196.56	4,003	2,158
196.05	3,733	186	196.57	4,008	2,199
196.06	3,738	223	196.58	4,013	2,239
196.07	3,743	261	196.59	4,019	2,279
196.08	3,748	298	196.60	4,024	2,319
196.09	3,754	336	196.61	4,029	2,359
196.10	3,759	373	196.62	4,035	2,400
196.11	3,764	411	196.63	4,040	2,440
196.12	3,770	449	196.64	4,045	2,480
196.13	3,775	486	196.65	4,051	2,521
196.14	3,780	524	196.66	4,056	2,561
196.15	3,786	562	196.67	4,061	2,602
196.16	3,791	600	196.68	4,066	2,643
196.17	3,796	638	196.69	4,072	2,683
196.18	3,801	676	196.70	4,077	2,724
196.19	3,807	714	196.71	4,082	2,765
196.20	3,812	752	196.72	4,088	2,806
196.21	3,817	790	196.73	4,093	2,847
196.22	3,823	828	196.74	4,098	2,888
196.23	3,828	866	196.75	4,104	2,929
196.24	3,833	905	196.76	4,109	2,970
196.25	3,839	943	196.77	4,114	3,011
196.26	3,844	981	196.78	4,119	3,052
196.27	3,849	1,020	196.79	4,125	3,093
196.28	3,854	1,058	196.80	4,130	3,134
196.29	3,860	1,097	196.81	4,135	3,176
196.30	3,865	1,136	196.82	4,141	3,217
196.31	3,870	1,174	196.83	4,146	3,259
196.32	3,876	1,213	196.84	4,151	3,300
196.33	3,881	1,252	196.85	4,156	3,342
196.34	3,886	1,291	196.86	4,162	3,383
196.35	3,891	1,330	196.87	4,167	3,425
196.36	3,897	1,369	196.88	4,172	3,466
196.37	3,902	1,407	196.89	4,178	3,508
196.38	3,907	1,447	196.90	4,183	3,550
196.39	3,913	1,486	196.91	4,188	3,592
196.40	3,918	1,525	196.92	4,194	3,634
196.41	3,923	1,564	196.93	4,199	3,676
196.42	3,929	1,603	196.94	4,204	3,718
196.43	3,934	1,643	196.95	4,209	3,760
196.44	3,939	1,682	196.96	4,215	3,802
196.45	3,944	1,721	196.97	4,220	3,844
196.46	3,950	1,761	196.98	4,225	3,886
196.47	3,955	1,800	196.99	4,231	3,929
196.48	3,960	1,840	197.00	4,236	3,971
196.49	3,966	1,880	197.01	4,242	4,013
196.50	3,971	1,919	197.02	4,247	4,056
196.51	3,976	1,959	197.03	4,253	4,098

Stage-Area-Storage for Pond B-15: Basin #15 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
197.04	4,258	4,141	197.56	4,549	6,431
197.05	4,264	4,183	197.57	4,555	6,476
197.06	4,270	4,226	197.58	4,560	6,522
197.07	4,275	4,269	197.59	4,566	6,568
197.08	4,281	4,312	197.60	4,571	6,613
197.09	4,286	4,355	197.61	4,577	6,659
197.10	4,292	4,397	197.62	4,583	6,705
197.11	4,297	4,440	197.63	4,588	6,751
197.12	4,303	4,483	197.64	4,594	6,797
197.13	4,309	4,526	197.65	4,599	6,842
197.14	4,314	4,570	197.66	4,605	6,889
197.15	4,320	4,613	197.67	4,611	6,935
197.16	4,325	4,656	197.68	4,616	6,981
197.17	4,331	4,699	197.69	4,622	7,027
197.18	4,337	4,743	197.70	4,627	7,073
197.19	4,342	4,786	197.71	4,633	7,119
197.20	4,348	4,829	197.72	4,638	7,166
197.21	4,353	4,873	197.73	4,644	7,212
197.22	4,359	4,916	197.74	4,650	7,259
197.23	4,365	4,960	197.75	4,655	7,305
197.24	4,370	5,004	197.76	4,661	7,352
197.25	4,376	5,047	197.77	4,666	7,398
197.26	4,381	5,091	197.78	4,672	7,445
197.27	4,387	5,135	197.79	4,678	7,492
197.28	4,393	5,179	197.80	4,683	7,539
197.29	4,398	5,223	197.81	4,689	7,586
197.30	4,404	5,267	197.82	4,694	7,632
197.31	4,409	5,311	197.83	4,700	7,679
197.32	4,415	5,355	197.84	4,706	7,726
197.33	4,420	5,399	197.85	4,711	7,774
197.34	4,426	5,444	197.86	4,717	7,821
197.35	4,432	5,488	197.87	4,722	7,868
197.36	4,437	5,532	197.88	4,728	7,915
197.37	4,443	5,577	197.89	4,734	7,962
197.38	4,448	5,621	197.90	4,739	8,010
197.39	4,454	5,666	197.91	4,745	8,057
197.40	4,460	5,710	197.92	4,750	8,105
197.41	4,465	5,755	197.93	4,756	8,152
197.42	4,471	5,799	197.94	4,761	8,200
197.43	4,476	5,844	197.95	4,767	8,247
197.44	4,482	5,889	197.96	4,773	8,295
197.45	4,488	5,934	197.97	4,778	8,343
197.46	4,493	5,979	197.98	4,784	8,391
197.47	4,499	6,024	197.99	4,789	8,439
197.48	4,504	6,069	198.00	4,795	8,487
197.49	4,510	6,114	198.01	4,801	8,534
197.50	4,516	6,159	198.02	4,807	8,583
197.51	4,521	6,204	198.03	4,813	8,631
197.52	4,527	6,249	198.04	4,819	8,679
197.53	4,532	6,295	198.05	4,824	8,727
197.54	4,538	6,340	198.06	4,830	8,775
197.55	4,543	6,385	198.07	4,836	8,824

Stage-Area-Storage for Pond B-15: Basin #15 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
198.08	4,842	8,872	198.60	5,148	11,470
198.09	4,848	8,920	198.61	5,154	11,521
198.10	4,854	8,969	198.62	5,160	11,573
198.11	4,860	9,018	198.63	5,166	11,624
198.12	4,866	9,066	198.64	5,172	11,676
198.13	4,872	9,115	198.65	5,178	11,728
198.14	4,877	9,164	198.66	5,184	11,779
198.15	4,883	9,212	198.67	5,190	11,831
198.16	4,889	9,261	198.68	5,196	11,883
198.17	4,895	9,310	198.69	5,201	11,935
198.18	4,901	9,359	198.70	5,207	11,987
198.19	4,907	9,408	198.71	5,213	12,039
198.20	4,913	9,457	198.72	5,219	12,092
198.21	4,919	9,506	198.73	5,225	12,144
198.22	4,925	9,556	198.74	5,231	12,196
198.23	4,930	9,605	198.75	5,237	12,248
198.24	4,936	9,654	198.76	5,243	12,301
198.25	4,942	9,704	198.77	5,249	12,353
198.26	4,948	9,753	198.78	5,254	12,406
198.27	4,954	9,803	198.79	5,260	12,458
198.28	4,960	9,852	198.80	5,266	12,511
198.29	4,966	9,902	198.81	5,272	12,564
198.30	4,972	9,952	198.82	5,278	12,616
198.31	4,978	10,001	198.83	5,284	12,669
198.32	4,983	10,051	198.84	5,290	12,722
198.33	4,989	10,101	198.85	5,296	12,775
198.34	4,995	10,151	198.86	5,302	12,828
198.35	5,001	10,201	198.87	5,307	12,881
198.36	5,007	10,251	198.88	5,313	12,934
198.37	5,013	10,301	198.89	5,319	12,987
198.38	5,019	10,351	198.90	5,325	13,041
198.39	5,025	10,401	198.91	5,331	13,094
198.40	5,031	10,452	198.92	5,337	13,147
198.41	5,036	10,502	198.93	5,343	13,201
198.42	5,042	10,552	198.94	5,349	13,254
198.43	5,048	10,603	198.95	5,355	13,308
198.44	5,054	10,653	198.96	5,360	13,361
198.45	5,060	10,704	198.97	5,366	13,415
198.46	5,066	10,755	198.98	5,372	13,468
198.47	5,072	10,805	198.99	5,378	13,522
198.48	5,078	10,856	199.00	5,384	13,576
198.49	5,084	10,907	199.01	5,390	13,630
198.50	5,090	10,958	199.02	5,396	13,684
198.51	5,095	11,009	199.03	5,403	13,738
198.52	5,101	11,060	199.04	5,409	13,792
198.53	5,107	11,111	199.05	5,415	13,846
198.54	5,113	11,162	199.06	5,421	13,900
198.55	5,119	11,213	199.07	5,427	13,954
198.56	5,125	11,264	199.08	5,433	14,009
198.57	5,131	11,315	199.09	5,440	14,063
198.58	5,137	11,367	199.10	5,446	14,117
198.59	5,143	11,418	199.11	5,452	14,172

Stage-Area-Storage for Pond B-15: Basin #15 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
199.12	5,458	14,227	199.64	5,780	17,148
199.13	5,464	14,281	199.65	5,786	17,206
199.14	5,471	14,336	199.66	5,792	17,264
199.15	5,477	14,391	199.67	5,798	17,322
199.16	5,483	14,445	199.68	5,804	17,380
199.17	5,489	14,500	199.69	5,810	17,438
199.18	5,495	14,555	199.70	5,817	17,496
199.19	5,501	14,610	199.71	5,823	17,554
199.20	5,508	14,665	199.72	5,829	17,613
199.21	5,514	14,720	199.73	5,835	17,671
199.22	5,520	14,775	199.74	5,841	17,729
199.23	5,526	14,831	199.75	5,848	17,788
199.24	5,532	14,886	199.76	5,854	17,846
199.25	5,539	14,941	199.77	5,860	17,905
199.26	5,545	14,997	199.78	5,866	17,964
199.27	5,551	15,052	199.79	5,872	18,022
199.28	5,557	15,108	199.80	5,878	18,081
199.29	5,563	15,163	199.81	5,885	18,140
199.30	5,569	15,219	199.82	5,891	18,199
199.31	5,576	15,275	199.83	5,897	18,258
199.32	5,582	15,331	199.84	5,903	18,317
199.33	5,588	15,386	199.85	5,909	18,376
199.34	5,594	15,442	199.86	5,915	18,435
199.35	5,600	15,498	199.87	5,922	18,494
199.36	5,606	15,554	199.88	5,928	18,553
199.37	5,613	15,610	199.89	5,934	18,613
199.38	5,619	15,667	199.90	5,940	18,672
199.39	5,625	15,723	199.91	5,946	18,731
199.40	5,631	15,779	199.92	5,953	18,791
199.41	5,637	15,835	199.93	5,959	18,850
199.42	5,644	15,892	199.94	5,965	18,910
199.43	5,650	15,948	199.95	5,971	18,970
199.44	5,656	16,005	199.96	5,977	19,029
199.45	5,662	16,061	199.97	5,983	19,089
199.46	5,668	16,118	199.98	5,990	19,149
199.47	5,674	16,175	199.99	5,996	19,209
199.48	5,681	16,232	200.00	6,002	19,269
199.49	5,687	16,288			
199.50	5,693	16,345			
199.51	5,699	16,402			
199.52	5,705	16,459			
199.53	5,712	16,516			
199.54	5,718	16,573			
199.55	5,724	16,631			
199.56	5,730	16,688			
199.57	5,736	16,745			
199.58	5,742	16,803			
199.59	5,749	16,860			
199.60	5,755	16,918			
199.61	5,761	16,975			
199.62	5,767	17,033			
199.63	5,773	17,091			

Summary for Pond B-16A: Basin #16A

Inflow Area = 1.876 ac, 45.47% Impervious, Inflow Depth = 3.54" for Current 10 yr event
 Inflow = 6.72 cfs @ 12.17 hrs, Volume= 0.554 af
 Outflow = 4.74 cfs @ 12.27 hrs, Volume= 0.475 af, Atten= 30%, Lag= 6.1 min
 Primary = 4.74 cfs @ 12.27 hrs, Volume= 0.475 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 180.18' @ 12.27 hrs Surf.Area= 4,201 sf Storage= 7,321 cf

Plug-Flow detention time= 135.0 min calculated for 0.474 af (86% of inflow)
 Center-of-Mass det. time= 68.3 min (854.9 - 786.6)

Volume	Invert	Avail.Storage	Storage Description
#1	178.00'	16,318 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
178.00	2,543	0	0
179.00	3,287	2,915	2,915
180.00	4,059	3,673	6,588
181.00	4,858	4,459	11,047
182.00	5,685	5,272	16,318

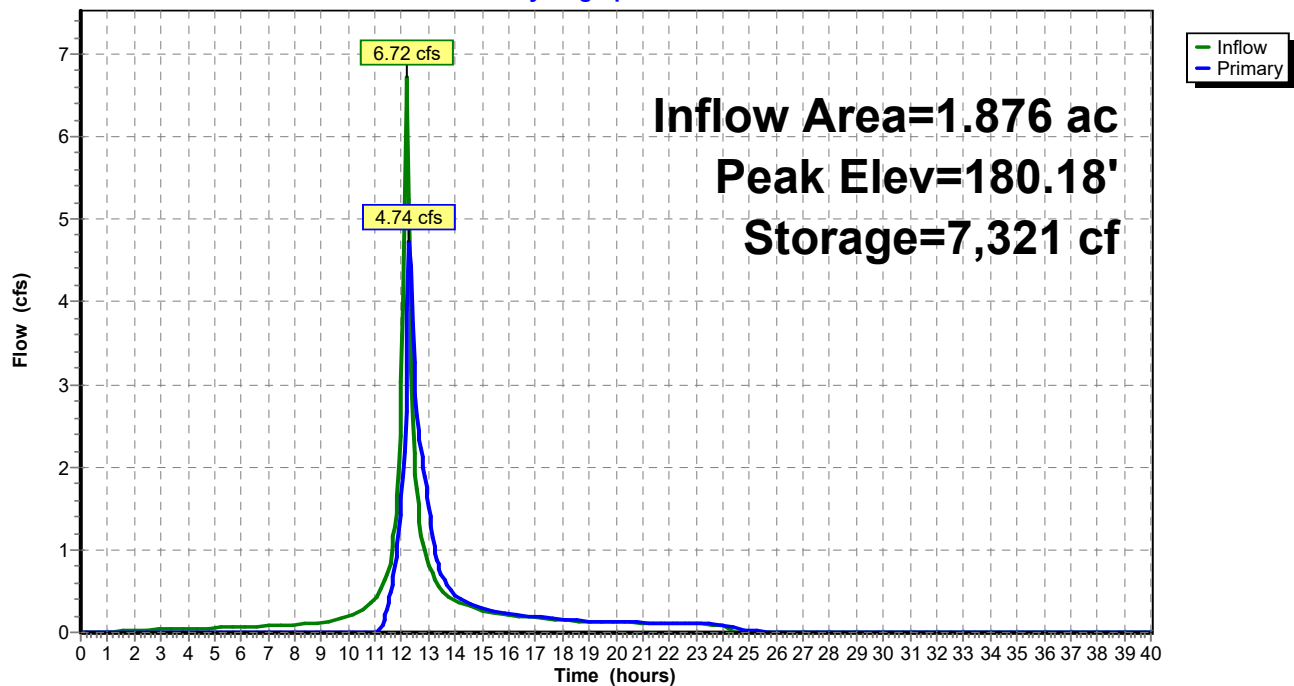
Device	Routing	Invert	Outlet Devices
#1	Primary	176.65'	18.0" Round Culvert L= 53.0' Ke= 0.500 Inlet / Outlet Invert= 176.65' / 172.00' S= 0.0877 ' S= 0.0877 ' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	179.16'	24.0" W x 4.0" H Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	179.91'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	181.95'	50.0' long + 3.0 ' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=4.64 cfs @ 12.27 hrs HW=180.17' (Free Discharge)

1=Culvert (Passes 4.64 cfs of 14.16 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 2.94 cfs @ 4.41 fps)
 3=Sharp-Crested Rectangular Weir (Weir Controls 1.70 cfs @ 1.66 fps)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-16A: Basin #16A

Hydrograph



Stage-Discharge for Pond B-16A: Basin #16A

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
178.00	0.00	178.52	0.00	179.04	0.00	179.56	1.51
178.01	0.00	178.53	0.00	179.05	0.00	179.57	1.55
178.02	0.00	178.54	0.00	179.06	0.00	179.58	1.58
178.03	0.00	178.55	0.00	179.07	0.00	179.59	1.62
178.04	0.00	178.56	0.00	179.08	0.00	179.60	1.65
178.05	0.00	178.57	0.00	179.09	0.00	179.61	1.68
178.06	0.00	178.58	0.00	179.10	0.00	179.62	1.71
178.07	0.00	178.59	0.00	179.11	0.00	179.63	1.74
178.08	0.00	178.60	0.00	179.12	0.00	179.64	1.77
178.09	0.00	178.61	0.00	179.13	0.00	179.65	1.80
178.10	0.00	178.62	0.00	179.14	0.00	179.66	1.83
178.11	0.00	178.63	0.00	179.15	0.00	179.67	1.86
178.12	0.00	178.64	0.00	179.16	0.00	179.68	1.89
178.13	0.00	178.65	0.00	179.17	0.01	179.69	1.92
178.14	0.00	178.66	0.00	179.18	0.02	179.70	1.94
178.15	0.00	178.67	0.00	179.19	0.03	179.71	1.97
178.16	0.00	178.68	0.00	179.20	0.05	179.72	2.00
178.17	0.00	178.69	0.00	179.21	0.07	179.73	2.02
178.18	0.00	178.70	0.00	179.22	0.09	179.74	2.05
178.19	0.00	178.71	0.00	179.23	0.12	179.75	2.07
178.20	0.00	178.72	0.00	179.24	0.15	179.76	2.10
178.21	0.00	178.73	0.00	179.25	0.17	179.77	2.12
178.22	0.00	178.74	0.00	179.26	0.20	179.78	2.15
178.23	0.00	178.75	0.00	179.27	0.23	179.79	2.17
178.24	0.00	178.76	0.00	179.28	0.27	179.80	2.20
178.25	0.00	178.77	0.00	179.29	0.30	179.81	2.22
178.26	0.00	178.78	0.00	179.30	0.34	179.82	2.24
178.27	0.00	178.79	0.00	179.31	0.37	179.83	2.27
178.28	0.00	178.80	0.00	179.32	0.41	179.84	2.29
178.29	0.00	178.81	0.00	179.33	0.45	179.85	2.31
178.30	0.00	178.82	0.00	179.34	0.49	179.86	2.33
178.31	0.00	178.83	0.00	179.35	0.53	179.87	2.36
178.32	0.00	178.84	0.00	179.36	0.57	179.88	2.38
178.33	0.00	178.85	0.00	179.37	0.62	179.89	2.40
178.34	0.00	178.86	0.00	179.38	0.66	179.90	2.42
178.35	0.00	178.87	0.00	179.39	0.71	179.91	2.44
178.36	0.00	178.88	0.00	179.40	0.75	179.92	2.48
178.37	0.00	178.89	0.00	179.41	0.80	179.93	2.52
178.38	0.00	178.90	0.00	179.42	0.85	179.94	2.57
178.39	0.00	178.91	0.00	179.43	0.90	179.95	2.63
178.40	0.00	178.92	0.00	179.44	0.95	179.96	2.69
178.41	0.00	178.93	0.00	179.45	1.00	179.97	2.76
178.42	0.00	178.94	0.00	179.46	1.05	179.98	2.83
178.43	0.00	178.95	0.00	179.47	1.11	179.99	2.90
178.44	0.00	178.96	0.00	179.48	1.16	180.00	2.98
178.45	0.00	178.97	0.00	179.49	1.22	180.01	3.06
178.46	0.00	178.98	0.00	179.50	1.27	180.02	3.14
178.47	0.00	178.99	0.00	179.51	1.32	180.03	3.23
178.48	0.00	179.00	0.00	179.52	1.36	180.04	3.31
178.49	0.00	179.01	0.00	179.53	1.40	180.05	3.40
178.50	0.00	179.02	0.00	179.54	1.44	180.06	3.50
178.51	0.00	179.03	0.00	179.55	1.48	180.07	3.59

Stage-Discharge for Pond B-16A: Basin #16A (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
180.08	3.69	180.60	10.86	181.12	16.41	181.64	17.52
180.09	3.79	180.61	11.03	181.13	16.43	181.65	17.54
180.10	3.89	180.62	11.20	181.14	16.46	181.66	17.56
180.11	3.99	180.63	11.37	181.15	16.48	181.67	17.58
180.12	4.10	180.64	11.54	181.16	16.50	181.68	17.60
180.13	4.21	180.65	11.71	181.17	16.52	181.69	17.62
180.14	4.32	180.66	11.88	181.18	16.54	181.70	17.64
180.15	4.43	180.67	12.05	181.19	16.56	181.71	17.66
180.16	4.54	180.68	12.23	181.20	16.59	181.72	17.69
180.17	4.65	180.69	12.40	181.21	16.61	181.73	17.71
180.18	4.77	180.70	12.58	181.22	16.63	181.74	17.73
180.19	4.89	180.71	12.76	181.23	16.65	181.75	17.75
180.20	5.01	180.72	12.94	181.24	16.67	181.76	17.77
180.21	5.13	180.73	13.11	181.25	16.70	181.77	17.79
180.22	5.25	180.74	13.29	181.26	16.72	181.78	17.81
180.23	5.38	180.75	13.47	181.27	16.74	181.79	17.83
180.24	5.50	180.76	13.66	181.28	16.76	181.80	17.85
180.25	5.63	180.77	13.84	181.29	16.78	181.81	17.87
180.26	5.76	180.78	14.02	181.30	16.80	181.82	17.89
180.27	5.89	180.79	14.20	181.31	16.82	181.83	17.91
180.28	6.02	180.80	14.39	181.32	16.85	181.84	17.93
180.29	6.15	180.81	14.57	181.33	16.87	181.85	17.95
180.30	6.29	180.82	14.76	181.34	16.89	181.86	17.97
180.31	6.42	180.83	14.95	181.35	16.91	181.87	17.99
180.32	6.56	180.84	15.13	181.36	16.93	181.88	18.01
180.33	6.70	180.85	15.32	181.37	16.95	181.89	18.03
180.34	6.84	180.86	15.51	181.38	16.97	181.90	18.05
180.35	6.98	180.87	15.70	181.39	17.00	181.91	18.07
180.36	7.12	180.88	15.87	181.40	17.02	181.92	18.09
180.37	7.26	180.89	15.90	181.41	17.04	181.93	18.11
180.38	7.41	180.90	15.92	181.42	17.06	181.94	18.13
180.39	7.55	180.91	15.94	181.43	17.08	181.95	18.15
180.40	7.70	180.92	15.96	181.44	17.10	181.96	18.29
180.41	7.85	180.93	15.99	181.45	17.12	181.97	18.52
180.42	8.00	180.94	16.01	181.46	17.14	181.98	18.82
180.43	8.15	180.95	16.03	181.47	17.17	181.99	19.17
180.44	8.30	180.96	16.05	181.48	17.19	182.00	19.56
180.45	8.45	180.97	16.08	181.49	17.21		
180.46	8.60	180.98	16.10	181.50	17.23		
180.47	8.76	180.99	16.12	181.51	17.25		
180.48	8.91	181.00	16.14	181.52	17.27		
180.49	9.07	181.01	16.17	181.53	17.29		
180.50	9.23	181.02	16.19	181.54	17.31		
180.51	9.39	181.03	16.21	181.55	17.33		
180.52	9.55	181.04	16.23	181.56	17.35		
180.53	9.71	181.05	16.26	181.57	17.38		
180.54	9.87	181.06	16.28	181.58	17.40		
180.55	10.03	181.07	16.30	181.59	17.42		
180.56	10.19	181.08	16.32	181.60	17.44		
180.57	10.36	181.09	16.34	181.61	17.46		
180.58	10.52	181.10	16.37	181.62	17.48		
180.59	10.69	181.11	16.39	181.63	17.50		

Stage-Area-Storage for Pond B-16A: Basin #16A

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
178.00	2,543	0	178.52	2,930	1,423
178.01	2,550	25	178.53	2,937	1,452
178.02	2,558	51	178.54	2,945	1,482
178.03	2,565	77	178.55	2,952	1,511
178.04	2,573	102	178.56	2,960	1,541
178.05	2,580	128	178.57	2,967	1,570
178.06	2,588	154	178.58	2,975	1,600
178.07	2,595	180	178.59	2,982	1,630
178.08	2,603	206	178.60	2,989	1,660
178.09	2,610	232	178.61	2,997	1,690
178.10	2,617	258	178.62	3,004	1,720
178.11	2,625	284	178.63	3,012	1,750
178.12	2,632	311	178.64	3,019	1,780
178.13	2,640	337	178.65	3,027	1,810
178.14	2,647	363	178.66	3,034	1,840
178.15	2,655	390	178.67	3,041	1,871
178.16	2,662	416	178.68	3,049	1,901
178.17	2,669	443	178.69	3,056	1,932
178.18	2,677	470	178.70	3,064	1,962
178.19	2,684	497	178.71	3,071	1,993
178.20	2,692	523	178.72	3,079	2,024
178.21	2,699	550	178.73	3,086	2,055
178.22	2,707	577	178.74	3,094	2,086
178.23	2,714	605	178.75	3,101	2,117
178.24	2,722	632	178.76	3,108	2,148
178.25	2,729	659	178.77	3,116	2,179
178.26	2,736	686	178.78	3,123	2,210
178.27	2,744	714	178.79	3,131	2,241
178.28	2,751	741	178.80	3,138	2,272
178.29	2,759	769	178.81	3,146	2,304
178.30	2,766	796	178.82	3,153	2,335
178.31	2,774	824	178.83	3,161	2,367
178.32	2,781	852	178.84	3,168	2,399
178.33	2,789	880	178.85	3,175	2,430
178.34	2,796	908	178.86	3,183	2,462
178.35	2,803	936	178.87	3,190	2,494
178.36	2,811	964	178.88	3,198	2,526
178.37	2,818	992	178.89	3,205	2,558
178.38	2,826	1,020	178.90	3,213	2,590
178.39	2,833	1,048	178.91	3,220	2,622
178.40	2,841	1,077	178.92	3,227	2,654
178.41	2,848	1,105	178.93	3,235	2,687
178.42	2,855	1,134	178.94	3,242	2,719
178.43	2,863	1,162	178.95	3,250	2,752
178.44	2,870	1,191	178.96	3,257	2,784
178.45	2,878	1,220	178.97	3,265	2,817
178.46	2,885	1,248	178.98	3,272	2,849
178.47	2,893	1,277	178.99	3,280	2,882
178.48	2,900	1,306	179.00	3,287	2,915
178.49	2,908	1,335	179.01	3,295	2,948
178.50	2,915	1,365	179.02	3,302	2,981
178.51	2,922	1,394	179.03	3,310	3,014

Stage-Area-Storage for Pond B-16A: Basin #16A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
179.04	3,318	3,047	179.56	3,719	4,877
179.05	3,326	3,080	179.57	3,727	4,914
179.06	3,333	3,114	179.58	3,735	4,951
179.07	3,341	3,147	179.59	3,742	4,989
179.08	3,349	3,180	179.60	3,750	5,026
179.09	3,356	3,214	179.61	3,758	5,064
179.10	3,364	3,248	179.62	3,766	5,101
179.11	3,372	3,281	179.63	3,773	5,139
179.12	3,380	3,315	179.64	3,781	5,177
179.13	3,387	3,349	179.65	3,789	5,215
179.14	3,395	3,383	179.66	3,797	5,253
179.15	3,403	3,417	179.67	3,804	5,291
179.16	3,411	3,451	179.68	3,812	5,329
179.17	3,418	3,485	179.69	3,820	5,367
179.18	3,426	3,519	179.70	3,827	5,405
179.19	3,434	3,553	179.71	3,835	5,443
179.20	3,441	3,588	179.72	3,843	5,482
179.21	3,449	3,622	179.73	3,851	5,520
179.22	3,457	3,657	179.74	3,858	5,559
179.23	3,465	3,691	179.75	3,866	5,597
179.24	3,472	3,726	179.76	3,874	5,636
179.25	3,480	3,761	179.77	3,881	5,675
179.26	3,488	3,796	179.78	3,889	5,714
179.27	3,495	3,831	179.79	3,897	5,753
179.28	3,503	3,866	179.80	3,905	5,792
179.29	3,511	3,901	179.81	3,912	5,831
179.30	3,519	3,936	179.82	3,920	5,870
179.31	3,526	3,971	179.83	3,928	5,909
179.32	3,534	4,006	179.84	3,935	5,948
179.33	3,542	4,042	179.85	3,943	5,988
179.34	3,549	4,077	179.86	3,951	6,027
179.35	3,557	4,113	179.87	3,959	6,067
179.36	3,565	4,148	179.88	3,966	6,106
179.37	3,573	4,184	179.89	3,974	6,146
179.38	3,580	4,220	179.90	3,982	6,186
179.39	3,588	4,256	179.91	3,990	6,226
179.40	3,596	4,292	179.92	3,997	6,266
179.41	3,604	4,328	179.93	4,005	6,306
179.42	3,611	4,364	179.94	4,013	6,346
179.43	3,619	4,400	179.95	4,020	6,386
179.44	3,627	4,436	179.96	4,028	6,426
179.45	3,634	4,472	179.97	4,036	6,467
179.46	3,642	4,509	179.98	4,044	6,507
179.47	3,650	4,545	179.99	4,051	6,547
179.48	3,658	4,582	180.00	4,059	6,588
179.49	3,665	4,618	180.01	4,067	6,629
179.50	3,673	4,655	180.02	4,075	6,669
179.51	3,681	4,692	180.03	4,083	6,710
179.52	3,688	4,729	180.04	4,091	6,751
179.53	3,696	4,766	180.05	4,099	6,792
179.54	3,704	4,803	180.06	4,107	6,833
179.55	3,712	4,840	180.07	4,115	6,874

Stage-Area-Storage for Pond B-16A: Basin #16A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
180.08	4,123	6,915	180.60	4,538	9,167
180.09	4,131	6,957	180.61	4,546	9,213
180.10	4,139	6,998	180.62	4,554	9,258
180.11	4,147	7,039	180.63	4,562	9,304
180.12	4,155	7,081	180.64	4,570	9,349
180.13	4,163	7,122	180.65	4,578	9,395
180.14	4,171	7,164	180.66	4,586	9,441
180.15	4,179	7,206	180.67	4,594	9,487
180.16	4,187	7,248	180.68	4,602	9,533
180.17	4,195	7,290	180.69	4,610	9,579
180.18	4,203	7,332	180.70	4,618	9,625
180.19	4,211	7,374	180.71	4,626	9,671
180.20	4,219	7,416	180.72	4,634	9,718
180.21	4,227	7,458	180.73	4,642	9,764
180.22	4,235	7,500	180.74	4,650	9,810
180.23	4,243	7,543	180.75	4,658	9,857
180.24	4,251	7,585	180.76	4,666	9,904
180.25	4,259	7,628	180.77	4,674	9,950
180.26	4,267	7,670	180.78	4,682	9,997
180.27	4,275	7,713	180.79	4,690	10,044
180.28	4,283	7,756	180.80	4,698	10,091
180.29	4,291	7,799	180.81	4,706	10,138
180.30	4,299	7,842	180.82	4,714	10,185
180.31	4,307	7,885	180.83	4,722	10,232
180.32	4,315	7,928	180.84	4,730	10,279
180.33	4,323	7,971	180.85	4,738	10,327
180.34	4,331	8,014	180.86	4,746	10,374
180.35	4,339	8,058	180.87	4,754	10,422
180.36	4,347	8,101	180.88	4,762	10,469
180.37	4,355	8,145	180.89	4,770	10,517
180.38	4,363	8,188	180.90	4,778	10,565
180.39	4,371	8,232	180.91	4,786	10,613
180.40	4,379	8,276	180.92	4,794	10,660
180.41	4,387	8,319	180.93	4,802	10,708
180.42	4,395	8,363	180.94	4,810	10,756
180.43	4,403	8,407	180.95	4,818	10,805
180.44	4,411	8,451	180.96	4,826	10,853
180.45	4,419	8,495	180.97	4,834	10,901
180.46	4,427	8,540	180.98	4,842	10,949
180.47	4,435	8,584	180.99	4,850	10,998
180.48	4,443	8,628	181.00	4,858	11,047
180.49	4,451	8,673	181.01	4,866	11,095
180.50	4,459	8,717	181.02	4,875	11,144
180.51	4,466	8,762	181.03	4,883	11,193
180.52	4,474	8,807	181.04	4,891	11,241
180.53	4,482	8,851	181.05	4,899	11,290
180.54	4,490	8,896	181.06	4,908	11,339
180.55	4,498	8,941	181.07	4,916	11,389
180.56	4,506	8,986	181.08	4,924	11,438
180.57	4,514	9,031	181.09	4,932	11,487
180.58	4,522	9,077	181.10	4,941	11,536
180.59	4,530	9,122	181.11	4,949	11,586

Stage-Area-Storage for Pond B-16A: Basin #16A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
181.12	4,957	11,635	181.64	5,387	14,325
181.13	4,966	11,685	181.65	5,396	14,379
181.14	4,974	11,735	181.66	5,404	14,433
181.15	4,982	11,785	181.67	5,412	14,487
181.16	4,990	11,834	181.68	5,420	14,541
181.17	4,999	11,884	181.69	5,429	14,595
181.18	5,007	11,934	181.70	5,437	14,650
181.19	5,015	11,984	181.71	5,445	14,704
181.20	5,023	12,035	181.72	5,453	14,759
181.21	5,032	12,085	181.73	5,462	14,813
181.22	5,040	12,135	181.74	5,470	14,868
181.23	5,048	12,186	181.75	5,478	14,923
181.24	5,056	12,236	181.76	5,487	14,977
181.25	5,065	12,287	181.77	5,495	15,032
181.26	5,073	12,338	181.78	5,503	15,087
181.27	5,081	12,388	181.79	5,511	15,142
181.28	5,090	12,439	181.80	5,520	15,198
181.29	5,098	12,490	181.81	5,528	15,253
181.30	5,106	12,541	181.82	5,536	15,308
181.31	5,114	12,592	181.83	5,544	15,364
181.32	5,123	12,643	181.84	5,553	15,419
181.33	5,131	12,695	181.85	5,561	15,475
181.34	5,139	12,746	181.86	5,569	15,530
181.35	5,147	12,797	181.87	5,577	15,586
181.36	5,156	12,849	181.88	5,586	15,642
181.37	5,164	12,901	181.89	5,594	15,698
181.38	5,172	12,952	181.90	5,602	15,754
181.39	5,181	13,004	181.91	5,611	15,810
181.40	5,189	13,056	181.92	5,619	15,866
181.41	5,197	13,108	181.93	5,627	15,922
181.42	5,205	13,160	181.94	5,635	15,978
181.43	5,214	13,212	181.95	5,644	16,035
181.44	5,222	13,264	181.96	5,652	16,091
181.45	5,230	13,316	181.97	5,660	16,148
181.46	5,238	13,369	181.98	5,668	16,204
181.47	5,247	13,421	181.99	5,677	16,261
181.48	5,255	13,474	182.00	5,685	16,318
181.49	5,263	13,526			
181.50	5,272	13,579			
181.51	5,280	13,632			
181.52	5,288	13,684			
181.53	5,296	13,737			
181.54	5,305	13,790			
181.55	5,313	13,843			
181.56	5,321	13,897			
181.57	5,329	13,950			
181.58	5,338	14,003			
181.59	5,346	14,057			
181.60	5,354	14,110			
181.61	5,362	14,164			
181.62	5,371	14,217			
181.63	5,379	14,271			

Summary for Pond B-16B: Basin #16B

Inflow Area = 1.877 ac, 43.74% Impervious, Inflow Depth = 3.50" for Current 10 yr event
 Inflow = 6.66 cfs @ 12.17 hrs, Volume= 0.548 af
 Outflow = 3.69 cfs @ 12.32 hrs, Volume= 0.468 af, Atten= 45%, Lag= 9.0 min
 Primary = 3.69 cfs @ 12.32 hrs, Volume= 0.468 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 180.28' @ 12.32 hrs Surf.Area= 4,648 sf Storage= 8,862 cf

Plug-Flow detention time= 147.8 min calculated for 0.468 af (85% of inflow)
 Center-of-Mass det. time= 80.5 min (868.5 - 788.1)

Volume	Invert	Avail.Storage	Storage Description
#1	178.00'	17,892 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
178.00	3,145	0	0
179.00	3,781	3,463	3,463
180.00	4,451	4,116	7,579
181.00	5,149	4,800	12,379
182.00	5,877	5,513	17,892

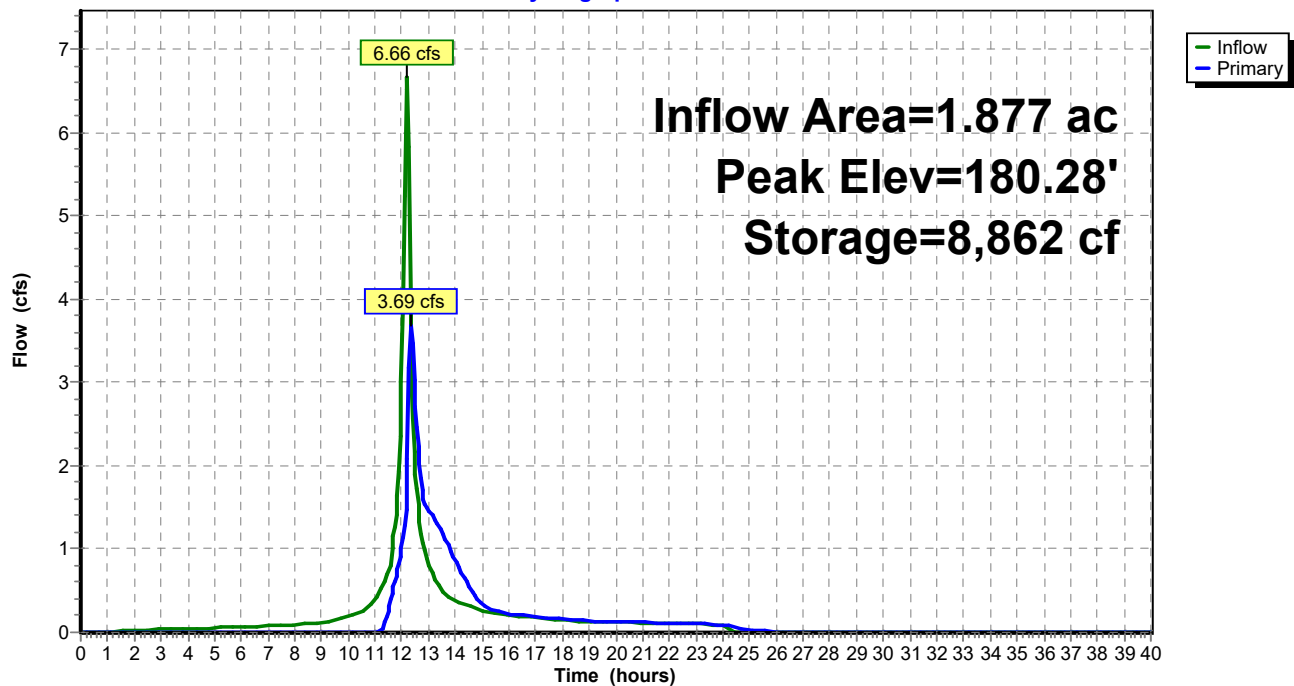
Device	Routing	Invert	Outlet Devices
#1	Primary	176.65'	18.0" Round Culvert L= 53.0' Ke= 0.500 Inlet / Outlet Invert= 176.65' / 172.00' S= 0.0877 ' S= 0.0877 ' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	179.00'	24.0" W x 2.0" H Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	180.00'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	180.67'	50.0' long + 3.0 ' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=3.62 cfs @ 12.32 hrs HW=180.28' (Free Discharge)

1=Culvert (Passes 3.62 cfs of 14.43 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 1.75 cfs @ 5.26 fps)
 3=Sharp-Crested Rectangular Weir (Weir Controls 1.87 cfs @ 1.72 fps)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-16B: Basin #16B

Hydrograph



Stage-Discharge for Pond B-16B: Basin #16B

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
178.00	0.00	178.52	0.00	179.04	0.05	179.56	1.11
178.01	0.00	178.53	0.00	179.05	0.07	179.57	1.12
178.02	0.00	178.54	0.00	179.06	0.09	179.58	1.13
178.03	0.00	178.55	0.00	179.07	0.12	179.59	1.14
178.04	0.00	178.56	0.00	179.08	0.15	179.60	1.15
178.05	0.00	178.57	0.00	179.09	0.17	179.61	1.16
178.06	0.00	178.58	0.00	179.10	0.20	179.62	1.17
178.07	0.00	178.59	0.00	179.11	0.23	179.63	1.19
178.08	0.00	178.60	0.00	179.12	0.27	179.64	1.20
178.09	0.00	178.61	0.00	179.13	0.30	179.65	1.21
178.10	0.00	178.62	0.00	179.14	0.34	179.66	1.22
178.11	0.00	178.63	0.00	179.15	0.37	179.67	1.23
178.12	0.00	178.64	0.00	179.16	0.41	179.68	1.24
178.13	0.00	178.65	0.00	179.17	0.45	179.69	1.25
178.14	0.00	178.66	0.00	179.18	0.48	179.70	1.26
178.15	0.00	178.67	0.00	179.19	0.51	179.71	1.27
178.16	0.00	178.68	0.00	179.20	0.54	179.72	1.28
178.17	0.00	178.69	0.00	179.21	0.56	179.73	1.29
178.18	0.00	178.70	0.00	179.22	0.58	179.74	1.30
178.19	0.00	178.71	0.00	179.23	0.61	179.75	1.31
178.20	0.00	178.72	0.00	179.24	0.63	179.76	1.32
178.21	0.00	178.73	0.00	179.25	0.65	179.77	1.33
178.22	0.00	178.74	0.00	179.26	0.67	179.78	1.34
178.23	0.00	178.75	0.00	179.27	0.69	179.79	1.35
178.24	0.00	178.76	0.00	179.28	0.71	179.80	1.36
178.25	0.00	178.77	0.00	179.29	0.72	179.81	1.37
178.26	0.00	178.78	0.00	179.30	0.74	179.82	1.38
178.27	0.00	178.79	0.00	179.31	0.76	179.83	1.39
178.28	0.00	178.80	0.00	179.32	0.78	179.84	1.40
178.29	0.00	178.81	0.00	179.33	0.79	179.85	1.40
178.30	0.00	178.82	0.00	179.34	0.81	179.86	1.41
178.31	0.00	178.83	0.00	179.35	0.83	179.87	1.42
178.32	0.00	178.84	0.00	179.36	0.84	179.88	1.43
178.33	0.00	178.85	0.00	179.37	0.86	179.89	1.44
178.34	0.00	178.86	0.00	179.38	0.87	179.90	1.45
178.35	0.00	178.87	0.00	179.39	0.89	179.91	1.46
178.36	0.00	178.88	0.00	179.40	0.90	179.92	1.47
178.37	0.00	178.89	0.00	179.41	0.91	179.93	1.48
178.38	0.00	178.90	0.00	179.42	0.93	179.94	1.48
178.39	0.00	178.91	0.00	179.43	0.94	179.95	1.49
178.40	0.00	178.92	0.00	179.44	0.96	179.96	1.50
178.41	0.00	178.93	0.00	179.45	0.97	179.97	1.51
178.42	0.00	178.94	0.00	179.46	0.98	179.98	1.52
178.43	0.00	178.95	0.00	179.47	1.00	179.99	1.53
178.44	0.00	178.96	0.00	179.48	1.01	180.00	1.54
178.45	0.00	178.97	0.00	179.49	1.02	180.01	1.56
178.46	0.00	178.98	0.00	179.50	1.03	180.02	1.59
178.47	0.00	178.99	0.00	179.51	1.05	180.03	1.63
178.48	0.00	179.00	0.00	179.52	1.06	180.04	1.67
178.49	0.00	179.01	0.01	179.53	1.07	180.05	1.72
178.50	0.00	179.02	0.02	179.54	1.08	180.06	1.78
178.51	0.00	179.03	0.03	179.55	1.09	180.07	1.84

Stage-Discharge for Pond B-16B: Basin #16B (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
180.08	1.90	180.60	7.87	181.12	55.73	181.64	151.50
180.09	1.96	180.61	8.02	181.13	57.25	181.65	153.66
180.10	2.03	180.62	8.18	181.14	58.79	181.66	155.83
180.11	2.10	180.63	8.33	181.15	60.36	181.67	158.01
180.12	2.17	180.64	8.48	181.16	61.96	181.68	160.16
180.13	2.25	180.65	8.64	181.17	63.59	181.69	162.31
180.14	2.33	180.66	8.80	181.18	65.24	181.70	164.48
180.15	2.41	180.67	8.95	181.19	66.91	181.71	166.66
180.16	2.50	180.68	9.23	181.20	68.62	181.72	168.84
180.17	2.58	180.69	9.60	181.21	70.35	181.73	171.04
180.18	2.67	180.70	10.04	181.22	72.10	181.74	173.25
180.19	2.76	180.71	10.53	181.23	73.89	181.75	175.47
180.20	2.85	180.72	11.07	181.24	75.70	181.76	177.70
180.21	2.95	180.73	11.64	181.25	77.53	181.77	179.94
180.22	3.05	180.74	12.26	181.26	79.40	181.78	182.19
180.23	3.14	180.75	12.91	181.27	81.29	181.79	184.45
180.24	3.25	180.76	13.59	181.28	82.94	181.80	186.72
180.25	3.35	180.77	14.30	181.29	84.60	181.81	189.00
180.26	3.45	180.78	15.04	181.30	86.27	181.82	191.29
180.27	3.56	180.79	15.81	181.31	87.96	181.83	193.59
180.28	3.67	180.80	16.61	181.32	89.66	181.84	195.90
180.29	3.78	180.81	17.43	181.33	91.38	181.85	198.22
180.30	3.89	180.82	18.28	181.34	93.11	181.86	200.55
180.31	4.00	180.83	19.15	181.35	94.85	181.87	202.89
180.32	4.11	180.84	20.04	181.36	96.60	181.88	205.28
180.33	4.23	180.85	20.96	181.37	98.37	181.89	207.68
180.34	4.35	180.86	21.90	181.38	100.15	181.90	210.08
180.35	4.47	180.87	22.86	181.39	101.94	181.91	212.50
180.36	4.59	180.88	23.89	181.40	103.75	181.92	214.93
180.37	4.71	180.89	24.93	181.41	105.57	181.93	217.37
180.38	4.83	180.90	26.01	181.42	107.40	181.94	219.82
180.39	4.96	180.91	27.11	181.43	109.24	181.95	222.28
180.40	5.08	180.92	28.24	181.44	111.09	181.96	224.75
180.41	5.21	180.93	29.39	181.45	112.96	181.97	227.23
180.42	5.34	180.94	30.57	181.46	114.84	181.98	229.73
180.43	5.47	180.95	31.78	181.47	116.73	181.99	232.23
180.44	5.60	180.96	33.01	181.48	118.67	182.00	234.74
180.45	5.74	180.97	34.26	181.49	120.62		
180.46	5.87	180.98	35.54	181.50	122.59		
180.47	6.01	180.99	36.85	181.51	124.57		
180.48	6.14	181.00	38.18	181.52	126.57		
180.49	6.28	181.01	39.54	181.53	128.57		
180.50	6.42	181.02	40.92	181.54	130.59		
180.51	6.56	181.03	42.32	181.55	132.62		
180.52	6.70	181.04	43.75	181.56	134.67		
180.53	6.84	181.05	45.21	181.57	136.73		
180.54	6.99	181.06	46.69	181.58	138.80		
180.55	7.13	181.07	48.19	181.59	140.88		
180.56	7.28	181.08	49.75	181.60	142.98		
180.57	7.43	181.09	51.33	181.61	145.09		
180.58	7.57	181.10	52.77	181.62	147.21		
180.59	7.72	181.11	54.24	181.63	149.35		

Stage-Area-Storage for Pond B-16B: Basin #16B

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
178.00	3,145	0	178.52	3,476	1,721
178.01	3,151	31	178.53	3,482	1,756
178.02	3,158	63	178.54	3,488	1,791
178.03	3,164	95	178.55	3,495	1,826
178.04	3,170	126	178.56	3,501	1,861
178.05	3,177	158	178.57	3,508	1,896
178.06	3,183	190	178.58	3,514	1,931
178.07	3,190	222	178.59	3,520	1,966
178.08	3,196	254	178.60	3,527	2,001
178.09	3,202	286	178.61	3,533	2,037
178.10	3,209	318	178.62	3,539	2,072
178.11	3,215	350	178.63	3,546	2,108
178.12	3,221	382	178.64	3,552	2,143
178.13	3,228	414	178.65	3,558	2,179
178.14	3,234	447	178.66	3,565	2,214
178.15	3,240	479	178.67	3,571	2,250
178.16	3,247	511	178.68	3,577	2,286
178.17	3,253	544	178.69	3,584	2,321
178.18	3,259	576	178.70	3,590	2,357
178.19	3,266	609	178.71	3,597	2,393
178.20	3,272	642	178.72	3,603	2,429
178.21	3,279	674	178.73	3,609	2,465
178.22	3,285	707	178.74	3,616	2,501
178.23	3,291	740	178.75	3,622	2,538
178.24	3,298	773	178.76	3,628	2,574
178.25	3,304	806	178.77	3,635	2,610
178.26	3,310	839	178.78	3,641	2,647
178.27	3,317	872	178.79	3,647	2,683
178.28	3,323	906	178.80	3,654	2,720
178.29	3,329	939	178.81	3,660	2,756
178.30	3,336	972	178.82	3,667	2,793
178.31	3,342	1,006	178.83	3,673	2,829
178.32	3,349	1,039	178.84	3,679	2,866
178.33	3,355	1,072	178.85	3,686	2,903
178.34	3,361	1,106	178.86	3,692	2,940
178.35	3,368	1,140	178.87	3,698	2,977
178.36	3,374	1,173	178.88	3,705	3,014
178.37	3,380	1,207	178.89	3,711	3,051
178.38	3,387	1,241	178.90	3,717	3,088
178.39	3,393	1,275	178.91	3,724	3,125
178.40	3,399	1,309	178.92	3,730	3,163
178.41	3,406	1,343	178.93	3,736	3,200
178.42	3,412	1,377	178.94	3,743	3,237
178.43	3,418	1,411	178.95	3,749	3,275
178.44	3,425	1,445	178.96	3,756	3,312
178.45	3,431	1,480	178.97	3,762	3,350
178.46	3,438	1,514	178.98	3,768	3,388
178.47	3,444	1,548	178.99	3,775	3,425
178.48	3,450	1,583	179.00	3,781	3,463
178.49	3,457	1,617	179.01	3,788	3,501
178.50	3,463	1,652	179.02	3,794	3,539
178.51	3,469	1,687	179.03	3,801	3,577

Stage-Area-Storage for Pond B-16B: Basin #16B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
179.04	3,808	3,615	179.56	4,156	5,685
179.05	3,815	3,653	179.57	4,163	5,727
179.06	3,821	3,691	179.58	4,170	5,769
179.07	3,828	3,729	179.59	4,176	5,810
179.08	3,835	3,768	179.60	4,183	5,852
179.09	3,841	3,806	179.61	4,190	5,894
179.10	3,848	3,844	179.62	4,196	5,936
179.11	3,855	3,883	179.63	4,203	5,978
179.12	3,861	3,922	179.64	4,210	6,020
179.13	3,868	3,960	179.65	4,217	6,062
179.14	3,875	3,999	179.66	4,223	6,104
179.15	3,882	4,038	179.67	4,230	6,147
179.16	3,888	4,077	179.68	4,237	6,189
179.17	3,895	4,115	179.69	4,243	6,231
179.18	3,902	4,154	179.70	4,250	6,274
179.19	3,908	4,193	179.71	4,257	6,316
179.20	3,915	4,233	179.72	4,263	6,359
179.21	3,922	4,272	179.73	4,270	6,402
179.22	3,928	4,311	179.74	4,277	6,444
179.23	3,935	4,350	179.75	4,284	6,487
179.24	3,942	4,390	179.76	4,290	6,530
179.25	3,949	4,429	179.77	4,297	6,573
179.26	3,955	4,469	179.78	4,304	6,616
179.27	3,962	4,508	179.79	4,310	6,659
179.28	3,969	4,548	179.80	4,317	6,702
179.29	3,975	4,588	179.81	4,324	6,745
179.30	3,982	4,627	179.82	4,330	6,789
179.31	3,989	4,667	179.83	4,337	6,832
179.32	3,995	4,707	179.84	4,344	6,875
179.33	4,002	4,747	179.85	4,350	6,919
179.34	4,009	4,787	179.86	4,357	6,962
179.35	4,015	4,827	179.87	4,364	7,006
179.36	4,022	4,868	179.88	4,371	7,050
179.37	4,029	4,908	179.89	4,377	7,093
179.38	4,036	4,948	179.90	4,384	7,137
179.39	4,042	4,989	179.91	4,391	7,181
179.40	4,049	5,029	179.92	4,397	7,225
179.41	4,056	5,070	179.93	4,404	7,269
179.42	4,062	5,110	179.94	4,411	7,313
179.43	4,069	5,151	179.95	4,417	7,357
179.44	4,076	5,191	179.96	4,424	7,401
179.45	4,082	5,232	179.97	4,431	7,446
179.46	4,089	5,273	179.98	4,438	7,490
179.47	4,096	5,314	179.99	4,444	7,535
179.48	4,103	5,355	180.00	4,451	7,579
179.49	4,109	5,396	180.01	4,458	7,624
179.50	4,116	5,437	180.02	4,465	7,668
179.51	4,123	5,478	180.03	4,472	7,713
179.52	4,129	5,520	180.04	4,479	7,758
179.53	4,136	5,561	180.05	4,486	7,802
179.54	4,143	5,602	180.06	4,493	7,847
179.55	4,150	5,644	180.07	4,500	7,892

Stage-Area-Storage for Pond B-16B: Basin #16B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
180.08	4,507	7,937	180.60	4,870	10,375
180.09	4,514	7,982	180.61	4,877	10,424
180.10	4,521	8,028	180.62	4,884	10,473
180.11	4,528	8,073	180.63	4,891	10,522
180.12	4,535	8,118	180.64	4,898	10,571
180.13	4,542	8,164	180.65	4,905	10,620
180.14	4,549	8,209	180.66	4,912	10,669
180.15	4,556	8,255	180.67	4,919	10,718
180.16	4,563	8,300	180.68	4,926	10,767
180.17	4,570	8,346	180.69	4,933	10,816
180.18	4,577	8,391	180.70	4,940	10,866
180.19	4,584	8,437	180.71	4,947	10,915
180.20	4,591	8,483	180.72	4,954	10,965
180.21	4,598	8,529	180.73	4,961	11,014
180.22	4,605	8,575	180.74	4,968	11,064
180.23	4,612	8,621	180.75	4,975	11,114
180.24	4,619	8,667	180.76	4,981	11,163
180.25	4,626	8,714	180.77	4,988	11,213
180.26	4,632	8,760	180.78	4,995	11,263
180.27	4,639	8,806	180.79	5,002	11,313
180.28	4,646	8,853	180.80	5,009	11,363
180.29	4,653	8,899	180.81	5,016	11,413
180.30	4,660	8,946	180.82	5,023	11,463
180.31	4,667	8,992	180.83	5,030	11,514
180.32	4,674	9,039	180.84	5,037	11,564
180.33	4,681	9,086	180.85	5,044	11,615
180.34	4,688	9,133	180.86	5,051	11,665
180.35	4,695	9,180	180.87	5,058	11,716
180.36	4,702	9,227	180.88	5,065	11,766
180.37	4,709	9,274	180.89	5,072	11,817
180.38	4,716	9,321	180.90	5,079	11,868
180.39	4,723	9,368	180.91	5,086	11,918
180.40	4,730	9,415	180.92	5,093	11,969
180.41	4,737	9,463	180.93	5,100	12,020
180.42	4,744	9,510	180.94	5,107	12,071
180.43	4,751	9,557	180.95	5,114	12,122
180.44	4,758	9,605	180.96	5,121	12,174
180.45	4,765	9,653	180.97	5,128	12,225
180.46	4,772	9,700	180.98	5,135	12,276
180.47	4,779	9,748	180.99	5,142	12,328
180.48	4,786	9,796	181.00	5,149	12,379
180.49	4,793	9,844	181.01	5,156	12,431
180.50	4,800	9,892	181.02	5,164	12,482
180.51	4,807	9,940	181.03	5,171	12,534
180.52	4,814	9,988	181.04	5,178	12,586
180.53	4,821	10,036	181.05	5,185	12,637
180.54	4,828	10,084	181.06	5,193	12,689
180.55	4,835	10,133	181.07	5,200	12,741
180.56	4,842	10,181	181.08	5,207	12,793
180.57	4,849	10,229	181.09	5,215	12,845
180.58	4,856	10,278	181.10	5,222	12,898
180.59	4,863	10,327	181.11	5,229	12,950

Stage-Area-Storage for Pond B-16B: Basin #16B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
181.12	5,236	13,002	181.64	5,615	15,823
181.13	5,244	13,055	181.65	5,622	15,880
181.14	5,251	13,107	181.66	5,629	15,936
181.15	5,258	13,160	181.67	5,637	15,992
181.16	5,265	13,212	181.68	5,644	16,049
181.17	5,273	13,265	181.69	5,651	16,105
181.18	5,280	13,318	181.70	5,659	16,162
181.19	5,287	13,370	181.71	5,666	16,218
181.20	5,295	13,423	181.72	5,673	16,275
181.21	5,302	13,476	181.73	5,680	16,332
181.22	5,309	13,529	181.74	5,688	16,389
181.23	5,316	13,583	181.75	5,695	16,446
181.24	5,324	13,636	181.76	5,702	16,502
181.25	5,331	13,689	181.77	5,710	16,560
181.26	5,338	13,742	181.78	5,717	16,617
181.27	5,346	13,796	181.79	5,724	16,674
181.28	5,353	13,849	181.80	5,731	16,731
181.29	5,360	13,903	181.81	5,739	16,789
181.30	5,367	13,956	181.82	5,746	16,846
181.31	5,375	14,010	181.83	5,753	16,903
181.32	5,382	14,064	181.84	5,761	16,961
181.33	5,389	14,118	181.85	5,768	17,019
181.34	5,397	14,172	181.86	5,775	17,076
181.35	5,404	14,226	181.87	5,782	17,134
181.36	5,411	14,280	181.88	5,790	17,192
181.37	5,418	14,334	181.89	5,797	17,250
181.38	5,426	14,388	181.90	5,804	17,308
181.39	5,433	14,442	181.91	5,811	17,366
181.40	5,440	14,497	181.92	5,819	17,424
181.41	5,447	14,551	181.93	5,826	17,482
181.42	5,455	14,606	181.94	5,833	17,541
181.43	5,462	14,660	181.95	5,841	17,599
181.44	5,469	14,715	181.96	5,848	17,658
181.45	5,477	14,770	181.97	5,855	17,716
181.46	5,484	14,825	181.98	5,862	17,775
181.47	5,491	14,879	181.99	5,870	17,833
181.48	5,498	14,934	182.00	5,877	17,892
181.49	5,506	14,989			
181.50	5,513	15,045			
181.51	5,520	15,100			
181.52	5,528	15,155			
181.53	5,535	15,210			
181.54	5,542	15,266			
181.55	5,549	15,321			
181.56	5,557	15,377			
181.57	5,564	15,432			
181.58	5,571	15,488			
181.59	5,579	15,544			
181.60	5,586	15,599			
181.61	5,593	15,655			
181.62	5,600	15,711			
181.63	5,608	15,767			

Summary for Pond B-17A: Basin #17A

Inflow Area = 1.324 ac, 14.58% Impervious, Inflow Depth = 2.80" for Current 10 yr event
 Inflow = 3.94 cfs @ 12.18 hrs, Volume= 0.309 af
 Outflow = 0.17 cfs @ 14.94 hrs, Volume= 0.270 af, Atten= 96%, Lag= 165.6 min
 Primary = 0.17 cfs @ 14.94 hrs, Volume= 0.270 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 180.39' @ 14.94 hrs Surf.Area= 6,916 sf Storage= 8,653 cf

Plug-Flow detention time= 606.1 min calculated for 0.270 af (88% of inflow)
 Center-of-Mass det. time= 545.9 min (1,366.3 - 820.4)

Volume	Invert	Avail.Storage	Storage Description
#1	179.00'	30,377 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
179.00	5,508	0	0
180.00	6,502	6,005	6,005
181.00	7,552	7,027	13,032
182.00	8,658	8,105	21,137
183.00	9,821	9,240	30,377

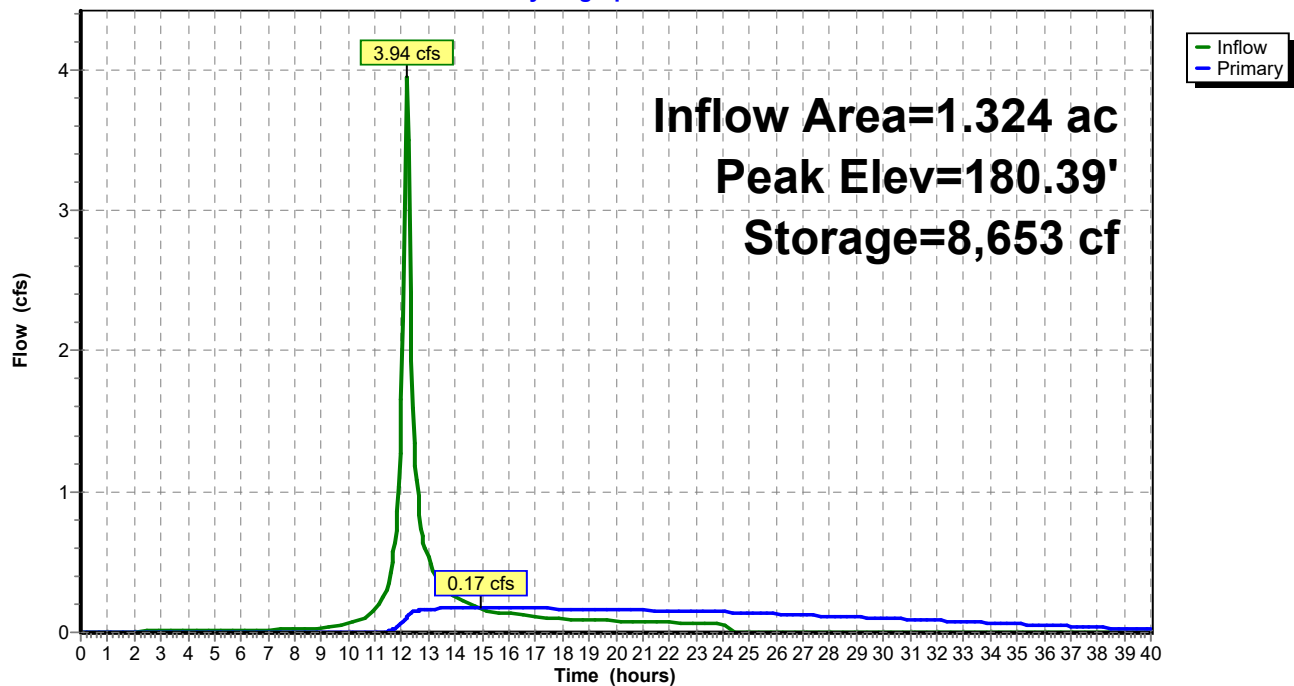
Device	Routing	Invert	Outlet Devices
#1	Primary	177.65'	18.0" Round Culvert L= 40.0' Ke= 0.500 Inlet / Outlet Invert= 177.65' / 177.00' S= 0.0163 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	179.18'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	182.00'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	181.95'	50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.17 cfs @ 14.94 hrs HW=180.39' (Free Discharge)

1=Culvert (Passes 0.17 cfs of 12.02 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.17 cfs @ 5.07 fps)
 3=Sharp-Crested Rectangular Weir(Controls 0.00 cfs)
 4=Broad-Crested Rectangular Weir(Controls 0.00 cfs)

Pond B-17A: Basin #17A

Hydrograph



Stage-Discharge for Pond B-17A: Basin #17A

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
179.00	0.00	179.52	0.08	180.04	0.14	180.56	0.19
179.01	0.00	179.53	0.08	180.05	0.14	180.57	0.19
179.02	0.00	179.54	0.08	180.06	0.14	180.58	0.19
179.03	0.00	179.55	0.08	180.07	0.15	180.59	0.19
179.04	0.00	179.56	0.09	180.08	0.15	180.60	0.19
179.05	0.00	179.57	0.09	180.09	0.15	180.61	0.19
179.06	0.00	179.58	0.09	180.10	0.15	180.62	0.19
179.07	0.00	179.59	0.09	180.11	0.15	180.63	0.19
179.08	0.00	179.60	0.09	180.12	0.15	180.64	0.19
179.09	0.00	179.61	0.09	180.13	0.15	180.65	0.19
179.10	0.00	179.62	0.10	180.14	0.15	180.66	0.19
179.11	0.00	179.63	0.10	180.15	0.15	180.67	0.19
179.12	0.00	179.64	0.10	180.16	0.15	180.68	0.19
179.13	0.00	179.65	0.10	180.17	0.15	180.69	0.19
179.14	0.00	179.66	0.10	180.18	0.16	180.70	0.20
179.15	0.00	179.67	0.10	180.19	0.16	180.71	0.20
179.16	0.00	179.68	0.10	180.20	0.16	180.72	0.20
179.17	0.00	179.69	0.10	180.21	0.16	180.73	0.20
179.18	0.00	179.70	0.11	180.22	0.16	180.74	0.20
179.19	0.00	179.71	0.11	180.23	0.16	180.75	0.20
179.20	0.00	179.72	0.11	180.24	0.16	180.76	0.20
179.21	0.00	179.73	0.11	180.25	0.16	180.77	0.20
179.22	0.00	179.74	0.11	180.26	0.16	180.78	0.20
179.23	0.00	179.75	0.11	180.27	0.16	180.79	0.20
179.24	0.01	179.76	0.11	180.28	0.16	180.80	0.20
179.25	0.01	179.77	0.11	180.29	0.16	180.81	0.20
179.26	0.01	179.78	0.12	180.30	0.17	180.82	0.20
179.27	0.01	179.79	0.12	180.31	0.17	180.83	0.20
179.28	0.02	179.80	0.12	180.32	0.17	180.84	0.20
179.29	0.02	179.81	0.12	180.33	0.17	180.85	0.21
179.30	0.02	179.82	0.12	180.34	0.17	180.86	0.21
179.31	0.03	179.83	0.12	180.35	0.17	180.87	0.21
179.32	0.03	179.84	0.12	180.36	0.17	180.88	0.21
179.33	0.03	179.85	0.12	180.37	0.17	180.89	0.21
179.34	0.04	179.86	0.12	180.38	0.17	180.90	0.21
179.35	0.04	179.87	0.13	180.39	0.17	180.91	0.21
179.36	0.05	179.88	0.13	180.40	0.17	180.92	0.21
179.37	0.05	179.89	0.13	180.41	0.17	180.93	0.21
179.38	0.05	179.90	0.13	180.42	0.17	180.94	0.21
179.39	0.05	179.91	0.13	180.43	0.18	180.95	0.21
179.40	0.06	179.92	0.13	180.44	0.18	180.96	0.21
179.41	0.06	179.93	0.13	180.45	0.18	180.97	0.21
179.42	0.06	179.94	0.13	180.46	0.18	180.98	0.21
179.43	0.06	179.95	0.13	180.47	0.18	180.99	0.21
179.44	0.06	179.96	0.13	180.48	0.18	181.00	0.22
179.45	0.07	179.97	0.14	180.49	0.18	181.01	0.22
179.46	0.07	179.98	0.14	180.50	0.18	181.02	0.22
179.47	0.07	179.99	0.14	180.51	0.18	181.03	0.22
179.48	0.07	180.00	0.14	180.52	0.18	181.04	0.22
179.49	0.07	180.01	0.14	180.53	0.18	181.05	0.22
179.50	0.08	180.02	0.14	180.54	0.18	181.06	0.22
179.51	0.08	180.03	0.14	180.55	0.18	181.07	0.22

Stage-Discharge for Pond B-17A: Basin #17A (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
181.08	0.22	181.60	0.25	182.12	9.08	182.64	86.46
181.09	0.22	181.61	0.25	182.13	9.90	182.65	88.35
181.10	0.22	181.62	0.25	182.14	10.74	182.66	90.26
181.11	0.22	181.63	0.25	182.15	11.60	182.67	92.18
181.12	0.22	181.64	0.25	182.16	12.52	182.68	94.12
181.13	0.22	181.65	0.25	182.17	13.47	182.69	96.07
181.14	0.22	181.66	0.25	182.18	14.45	182.70	98.03
181.15	0.22	181.67	0.25	182.19	15.46	182.71	100.01
181.16	0.22	181.68	0.25	182.20	16.49	182.72	102.00
181.17	0.23	181.69	0.25	182.21	17.55	182.73	104.00
181.18	0.23	181.70	0.26	182.22	18.64	182.74	106.02
181.19	0.23	181.71	0.26	182.23	19.76	182.75	108.05
181.20	0.23	181.72	0.26	182.24	20.90	182.76	110.13
181.21	0.23	181.73	0.26	182.25	22.07	182.77	112.22
181.22	0.23	181.74	0.26	182.26	23.26	182.78	114.33
181.23	0.23	181.75	0.26	182.27	24.48	182.79	116.45
181.24	0.23	181.76	0.26	182.28	25.73	182.80	118.59
181.25	0.23	181.77	0.26	182.29	27.00	182.81	120.74
181.26	0.23	181.78	0.26	182.30	28.30	182.82	122.90
181.27	0.23	181.79	0.26	182.31	29.62	182.83	125.08
181.28	0.23	181.80	0.26	182.32	30.97	182.84	127.27
181.29	0.23	181.81	0.26	182.33	32.35	182.85	129.48
181.30	0.23	181.82	0.26	182.34	33.75	182.86	131.70
181.31	0.23	181.83	0.26	182.35	35.18	182.87	133.93
181.32	0.23	181.84	0.26	182.36	36.66	182.88	136.18
181.33	0.23	181.85	0.26	182.37	38.17	182.89	138.44
181.34	0.24	181.86	0.26	182.38	39.70	182.90	140.71
181.35	0.24	181.87	0.26	182.39	41.26	182.91	143.00
181.36	0.24	181.88	0.26	182.40	42.85	182.92	145.30
181.37	0.24	181.89	0.26	182.41	44.47	182.93	147.61
181.38	0.24	181.90	0.27	182.42	46.11	182.94	149.94
181.39	0.24	181.91	0.27	182.43	47.79	182.95	152.28
181.40	0.24	181.92	0.27	182.44	49.49	182.96	154.58
181.41	0.24	181.93	0.27	182.45	51.22	182.97	156.90
181.42	0.24	181.94	0.27	182.46	52.97	182.98	159.22
181.43	0.24	181.95	0.27	182.47	54.76	182.99	161.55
181.44	0.24	181.96	0.39	182.48	56.57	183.00	163.90
181.45	0.24	181.97	0.60	182.49	58.41		
181.46	0.24	181.98	0.88	182.50	60.28		
181.47	0.24	181.99	1.21	182.51	62.17		
181.48	0.24	182.00	1.58	182.52	64.09		
181.49	0.24	182.01	2.01	182.53	66.05		
181.50	0.24	182.02	2.48	182.54	68.03		
181.51	0.24	182.03	3.00	182.55	70.03		
181.52	0.25	182.04	3.55	182.56	71.80		
181.53	0.25	182.05	4.14	182.57	73.58		
181.54	0.25	182.06	4.76	182.58	75.38		
181.55	0.25	182.07	5.41	182.59	77.19		
181.56	0.25	182.08	6.09	182.60	79.01		
181.57	0.25	182.09	6.80	182.61	80.85		
181.58	0.25	182.10	7.53	182.62	82.71		
181.59	0.25	182.11	8.30	182.63	84.57		

Stage-Area-Storage for Pond B-17A: Basin #17A

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
179.00	5,508	0	179.52	6,025	2,999
179.01	5,518	55	179.53	6,035	3,059
179.02	5,528	110	179.54	6,045	3,119
179.03	5,538	166	179.55	6,055	3,180
179.04	5,548	221	179.56	6,065	3,240
179.05	5,558	277	179.57	6,075	3,301
179.06	5,568	332	179.58	6,085	3,362
179.07	5,578	388	179.59	6,094	3,423
179.08	5,588	444	179.60	6,104	3,484
179.09	5,597	500	179.61	6,114	3,545
179.10	5,607	556	179.62	6,124	3,606
179.11	5,617	612	179.63	6,134	3,667
179.12	5,627	668	179.64	6,144	3,729
179.13	5,637	724	179.65	6,154	3,790
179.14	5,647	781	179.66	6,164	3,852
179.15	5,657	837	179.67	6,174	3,913
179.16	5,667	894	179.68	6,184	3,975
179.17	5,677	951	179.69	6,194	4,037
179.18	5,687	1,008	179.70	6,204	4,099
179.19	5,697	1,064	179.71	6,214	4,161
179.20	5,707	1,121	179.72	6,224	4,223
179.21	5,717	1,179	179.73	6,234	4,286
179.22	5,727	1,236	179.74	6,244	4,348
179.23	5,737	1,293	179.75	6,254	4,411
179.24	5,747	1,351	179.76	6,263	4,473
179.25	5,757	1,408	179.77	6,273	4,536
179.26	5,766	1,466	179.78	6,283	4,599
179.27	5,776	1,523	179.79	6,293	4,661
179.28	5,786	1,581	179.80	6,303	4,724
179.29	5,796	1,639	179.81	6,313	4,788
179.30	5,806	1,697	179.82	6,323	4,851
179.31	5,816	1,755	179.83	6,333	4,914
179.32	5,826	1,813	179.84	6,343	4,977
179.33	5,836	1,872	179.85	6,353	5,041
179.34	5,846	1,930	179.86	6,363	5,104
179.35	5,856	1,989	179.87	6,373	5,168
179.36	5,866	2,047	179.88	6,383	5,232
179.37	5,876	2,106	179.89	6,393	5,296
179.38	5,886	2,165	179.90	6,403	5,360
179.39	5,896	2,224	179.91	6,413	5,424
179.40	5,906	2,283	179.92	6,422	5,488
179.41	5,916	2,342	179.93	6,432	5,552
179.42	5,925	2,401	179.94	6,442	5,617
179.43	5,935	2,460	179.95	6,452	5,681
179.44	5,945	2,520	179.96	6,462	5,746
179.45	5,955	2,579	179.97	6,472	5,810
179.46	5,965	2,639	179.98	6,482	5,875
179.47	5,975	2,699	179.99	6,492	5,940
179.48	5,985	2,758	180.00	6,502	6,005
179.49	5,995	2,818	180.01	6,512	6,070
179.50	6,005	2,878	180.02	6,523	6,135
179.51	6,015	2,938	180.03	6,534	6,201

Stage-Area-Storage for Pond B-17A: Basin #17A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
180.04	6,544	6,266	180.56	7,090	9,811
180.05	6,555	6,331	180.57	7,100	9,882
180.06	6,565	6,397	180.58	7,111	9,953
180.07	6,575	6,463	180.59	7,122	10,024
180.08	6,586	6,529	180.60	7,132	10,095
180.09	6,597	6,594	180.61	7,143	10,167
180.10	6,607	6,660	180.62	7,153	10,238
180.11	6,618	6,727	180.63	7,163	10,310
180.12	6,628	6,793	180.64	7,174	10,381
180.13	6,638	6,859	180.65	7,185	10,453
180.14	6,649	6,926	180.66	7,195	10,525
180.15	6,660	6,992	180.67	7,205	10,597
180.16	6,670	7,059	180.68	7,216	10,669
180.17	6,680	7,126	180.69	7,226	10,741
180.18	6,691	7,192	180.70	7,237	10,814
180.19	6,701	7,259	180.71	7,248	10,886
180.20	6,712	7,326	180.72	7,258	10,959
180.21	6,723	7,394	180.73	7,268	11,031
180.22	6,733	7,461	180.74	7,279	11,104
180.23	6,743	7,528	180.75	7,290	11,177
180.24	6,754	7,596	180.76	7,300	11,250
180.25	6,765	7,663	180.77	7,311	11,323
180.26	6,775	7,731	180.78	7,321	11,396
180.27	6,786	7,799	180.79	7,331	11,469
180.28	6,796	7,867	180.80	7,342	11,543
180.29	6,806	7,935	180.81	7,353	11,616
180.30	6,817	8,003	180.82	7,363	11,690
180.31	6,828	8,071	180.83	7,374	11,763
180.32	6,838	8,139	180.84	7,384	11,837
180.33	6,849	8,208	180.85	7,394	11,911
180.34	6,859	8,276	180.86	7,405	11,985
180.35	6,869	8,345	180.87	7,416	12,059
180.36	6,880	8,414	180.88	7,426	12,133
180.37	6,891	8,483	180.89	7,436	12,208
180.38	6,901	8,552	180.90	7,447	12,282
180.39	6,911	8,621	180.91	7,457	12,357
180.40	6,922	8,690	180.92	7,468	12,431
180.41	6,932	8,759	180.93	7,479	12,506
180.42	6,943	8,828	180.94	7,489	12,581
180.43	6,954	8,898	180.95	7,499	12,656
180.44	6,964	8,968	180.96	7,510	12,731
180.45	6,974	9,037	180.97	7,520	12,806
180.46	6,985	9,107	180.98	7,531	12,881
180.47	6,995	9,177	180.99	7,542	12,957
180.48	7,006	9,247	181.00	7,552	13,032
180.49	7,017	9,317	181.01	7,563	13,108
180.50	7,027	9,387	181.02	7,574	13,183
180.51	7,037	9,458	181.03	7,585	13,259
180.52	7,048	9,528	181.04	7,596	13,335
180.53	7,059	9,599	181.05	7,607	13,411
180.54	7,069	9,669	181.06	7,618	13,487
180.55	7,080	9,740	181.07	7,629	13,563

Stage-Area-Storage for Pond B-17A: Basin #17A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
181.08	7,640	13,640	181.60	8,216	17,762
181.09	7,652	13,716	181.61	8,227	17,844
181.10	7,663	13,793	181.62	8,238	17,927
181.11	7,674	13,869	181.63	8,249	18,009
181.12	7,685	13,946	181.64	8,260	18,092
181.13	7,696	14,023	181.65	8,271	18,174
181.14	7,707	14,100	181.66	8,282	18,257
181.15	7,718	14,177	181.67	8,293	18,340
181.16	7,729	14,254	181.68	8,304	18,423
181.17	7,740	14,332	181.69	8,315	18,506
181.18	7,751	14,409	181.70	8,326	18,589
181.19	7,762	14,487	181.71	8,337	18,673
181.20	7,773	14,565	181.72	8,348	18,756
181.21	7,784	14,642	181.73	8,359	18,840
181.22	7,795	14,720	181.74	8,370	18,923
181.23	7,806	14,798	181.75	8,382	19,007
181.24	7,817	14,876	181.76	8,393	19,091
181.25	7,829	14,955	181.77	8,404	19,175
181.26	7,840	15,033	181.78	8,415	19,259
181.27	7,851	15,111	181.79	8,426	19,343
181.28	7,862	15,190	181.80	8,437	19,428
181.29	7,873	15,269	181.81	8,448	19,512
181.30	7,884	15,347	181.82	8,459	19,596
181.31	7,895	15,426	181.83	8,470	19,681
181.32	7,906	15,505	181.84	8,481	19,766
181.33	7,917	15,584	181.85	8,492	19,851
181.34	7,928	15,664	181.86	8,503	19,936
181.35	7,939	15,743	181.87	8,514	20,021
181.36	7,950	15,822	181.88	8,525	20,106
181.37	7,961	15,902	181.89	8,536	20,191
181.38	7,972	15,982	181.90	8,547	20,277
181.39	7,983	16,061	181.91	8,558	20,362
181.40	7,994	16,141	181.92	8,570	20,448
181.41	8,005	16,221	181.93	8,581	20,534
181.42	8,017	16,301	181.94	8,592	20,620
181.43	8,028	16,382	181.95	8,603	20,705
181.44	8,039	16,462	181.96	8,614	20,792
181.45	8,050	16,542	181.97	8,625	20,878
181.46	8,061	16,623	181.98	8,636	20,964
181.47	8,072	16,704	181.99	8,647	21,050
181.48	8,083	16,784	182.00	8,658	21,137
181.49	8,094	16,865	182.01	8,670	21,224
181.50	8,105	16,946	182.02	8,681	21,310
181.51	8,116	17,027	182.03	8,693	21,397
181.52	8,127	17,109	182.04	8,705	21,484
181.53	8,138	17,190	182.05	8,716	21,571
181.54	8,149	17,271	182.06	8,728	21,659
181.55	8,160	17,353	182.07	8,739	21,746
181.56	8,171	17,435	182.08	8,751	21,833
181.57	8,182	17,516	182.09	8,763	21,921
181.58	8,193	17,598	182.10	8,774	22,009
181.59	8,205	17,680	182.11	8,786	22,096

Stage-Area-Storage for Pond B-17A: Basin #17A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
182.12	8,798	22,184	182.64	9,402	26,916
182.13	8,809	22,272	182.65	9,414	27,010
182.14	8,821	22,361	182.66	9,426	27,105
182.15	8,832	22,449	182.67	9,437	27,199
182.16	8,844	22,537	182.68	9,449	27,293
182.17	8,856	22,626	182.69	9,460	27,388
182.18	8,867	22,714	182.70	9,472	27,483
182.19	8,879	22,803	182.71	9,484	27,577
182.20	8,891	22,892	182.72	9,495	27,672
182.21	8,902	22,981	182.73	9,507	27,767
182.22	8,914	23,070	182.74	9,519	27,862
182.23	8,925	23,159	182.75	9,530	27,958
182.24	8,937	23,248	182.76	9,542	28,053
182.25	8,949	23,338	182.77	9,554	28,148
182.26	8,960	23,427	182.78	9,565	28,244
182.27	8,972	23,517	182.79	9,577	28,340
182.28	8,984	23,607	182.80	9,588	28,436
182.29	8,995	23,697	182.81	9,600	28,532
182.30	9,007	23,787	182.82	9,612	28,628
182.31	9,019	23,877	182.83	9,623	28,724
182.32	9,030	23,967	182.84	9,635	28,820
182.33	9,042	24,057	182.85	9,647	28,916
182.34	9,053	24,148	182.86	9,658	29,013
182.35	9,065	24,239	182.87	9,670	29,110
182.36	9,077	24,329	182.88	9,681	29,206
182.37	9,088	24,420	182.89	9,693	29,303
182.38	9,100	24,511	182.90	9,705	29,400
182.39	9,112	24,602	182.91	9,716	29,497
182.40	9,123	24,693	182.92	9,728	29,595
182.41	9,135	24,785	182.93	9,740	29,692
182.42	9,146	24,876	182.94	9,751	29,789
182.43	9,158	24,967	182.95	9,763	29,887
182.44	9,170	25,059	182.96	9,774	29,985
182.45	9,181	25,151	182.97	9,786	30,082
182.46	9,193	25,243	182.98	9,798	30,180
182.47	9,205	25,335	182.99	9,809	30,278
182.48	9,216	25,427	183.00	9,821	30,377
182.49	9,228	25,519			
182.50	9,240	25,611			
182.51	9,251	25,704			
182.52	9,263	25,796			
182.53	9,274	25,889			
182.54	9,286	25,982			
182.55	9,298	26,075			
182.56	9,309	26,168			
182.57	9,321	26,261			
182.58	9,333	26,354			
182.59	9,344	26,448			
182.60	9,356	26,541			
182.61	9,367	26,635			
182.62	9,379	26,728			
182.63	9,391	26,822			

Summary for Pond B-17B: Basin #17B

Inflow Area = 1.385 ac, 37.11% Impervious, Inflow Depth = 3.34" for Current 10 yr event
 Inflow = 4.74 cfs @ 12.17 hrs, Volume= 0.386 af
 Outflow = 1.60 cfs @ 12.45 hrs, Volume= 0.315 af, Atten= 66%, Lag= 16.4 min
 Primary = 1.60 cfs @ 12.45 hrs, Volume= 0.315 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 180.09' @ 12.45 hrs Surf.Area= 8,150 sf Storage= 8,210 cf

Plug-Flow detention time= 380.4 min calculated for 0.314 af (81% of inflow)
 Center-of-Mass det. time= 302.7 min (1,096.9 - 794.2)

Volume	Invert	Avail.Storage	Storage Description
#1	179.00'	37,242 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
179.00	6,855	0	0
180.00	8,033	7,444	7,444
181.00	9,268	8,651	16,095
182.00	10,560	9,914	26,009
183.00	11,907	11,234	37,242

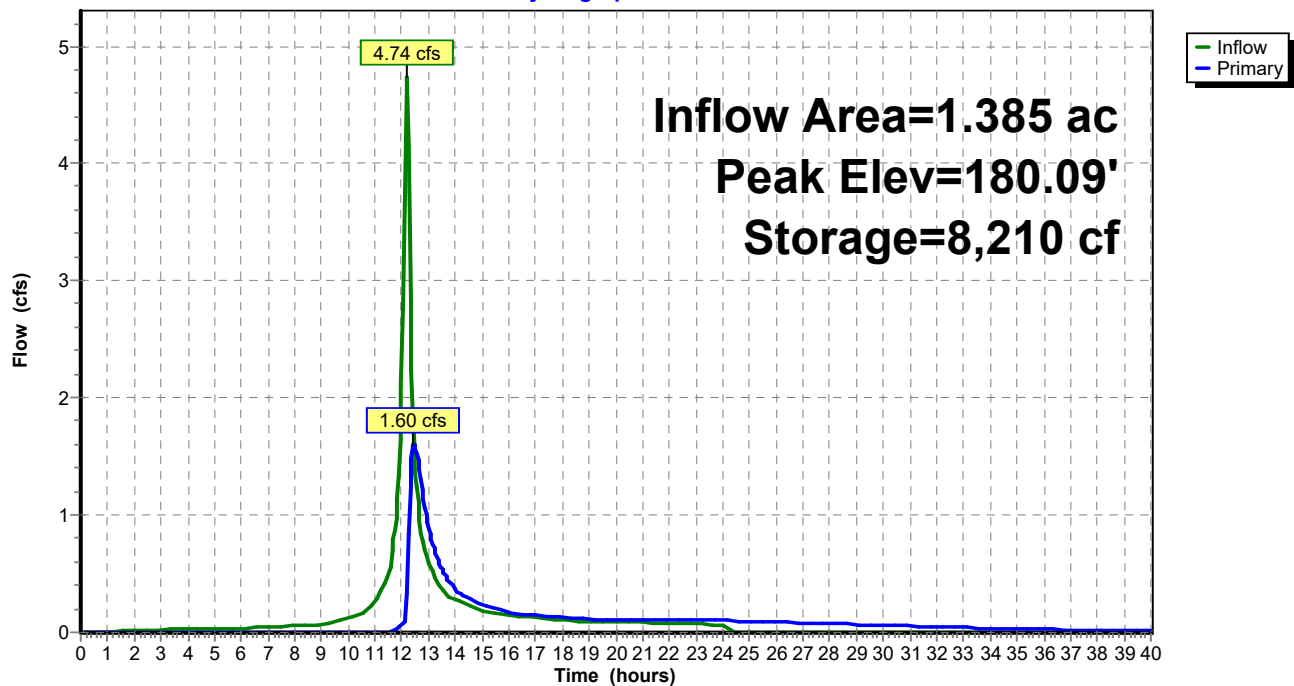
Device	Routing	Invert	Outlet Devices
#1	Primary	177.65'	18.0" Round Culvert L= 40.0' Ke= 0.500 Inlet / Outlet Invert= 177.65' / 177.00' S= 0.0163 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	179.35'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	179.86'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	181.95'	50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=1.60 cfs @ 12.45 hrs HW=180.09' (Free Discharge)

1=Culvert (Passes 1.60 cfs of 11.08 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.13 cfs @ 3.85 fps)
 3=Sharp-Crested Rectangular Weir (Weir Controls 1.47 cfs @ 1.58 fps)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-17B: Basin #17B

Hydrograph



Stage-Discharge for Pond B-17B: Basin #17B

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
179.00	0.00	179.52	0.04	180.04	1.12	180.56	7.56
179.01	0.00	179.53	0.05	180.05	1.20	180.57	7.72
179.02	0.00	179.54	0.05	180.06	1.29	180.58	7.88
179.03	0.00	179.55	0.05	180.07	1.37	180.59	8.04
179.04	0.00	179.56	0.05	180.08	1.46	180.60	8.19
179.05	0.00	179.57	0.06	180.09	1.56	180.61	8.35
179.06	0.00	179.58	0.06	180.10	1.65	180.62	8.51
179.07	0.00	179.59	0.06	180.11	1.75	180.63	8.68
179.08	0.00	179.60	0.06	180.12	1.85	180.64	8.84
179.09	0.00	179.61	0.06	180.13	1.95	180.65	9.00
179.10	0.00	179.62	0.07	180.14	2.05	180.66	9.17
179.11	0.00	179.63	0.07	180.15	2.15	180.67	9.33
179.12	0.00	179.64	0.07	180.16	2.25	180.68	9.50
179.13	0.00	179.65	0.07	180.17	2.36	180.69	9.66
179.14	0.00	179.66	0.07	180.18	2.47	180.70	9.83
179.15	0.00	179.67	0.08	180.19	2.58	180.71	10.00
179.16	0.00	179.68	0.08	180.20	2.69	180.72	10.17
179.17	0.00	179.69	0.08	180.21	2.80	180.73	10.34
179.18	0.00	179.70	0.08	180.22	2.92	180.74	10.51
179.19	0.00	179.71	0.08	180.23	3.03	180.75	10.68
179.20	0.00	179.72	0.08	180.24	3.15	180.76	10.85
179.21	0.00	179.73	0.09	180.25	3.27	180.77	11.03
179.22	0.00	179.74	0.09	180.26	3.39	180.78	11.20
179.23	0.00	179.75	0.09	180.27	3.51	180.79	11.38
179.24	0.00	179.76	0.09	180.28	3.63	180.80	11.55
179.25	0.00	179.77	0.09	180.29	3.76	180.81	11.73
179.26	0.00	179.78	0.09	180.30	3.88	180.82	11.90
179.27	0.00	179.79	0.10	180.31	4.01	180.83	12.08
179.28	0.00	179.80	0.10	180.32	4.14	180.84	12.26
179.29	0.00	179.81	0.10	180.33	4.27	180.85	12.44
179.30	0.00	179.82	0.10	180.34	4.40	180.86	12.62
179.31	0.00	179.83	0.10	180.35	4.53	180.87	12.80
179.32	0.00	179.84	0.10	180.36	4.67	180.88	12.98
179.33	0.00	179.85	0.10	180.37	4.80	180.89	13.17
179.34	0.00	179.86	0.10	180.38	4.94	180.90	13.35
179.35	0.00	179.87	0.12	180.39	5.07	180.91	13.48
179.36	0.00	179.88	0.14	180.40	5.21	180.92	13.51
179.37	0.00	179.89	0.18	180.41	5.35	180.93	13.53
179.38	0.00	179.90	0.21	180.42	5.49	180.94	13.56
179.39	0.00	179.91	0.26	180.43	5.63	180.95	13.59
179.40	0.00	179.92	0.30	180.44	5.77	180.96	13.61
179.41	0.01	179.93	0.35	180.45	5.92	180.97	13.64
179.42	0.01	179.94	0.41	180.46	6.06	180.98	13.67
179.43	0.01	179.95	0.47	180.47	6.21	180.99	13.69
179.44	0.01	179.96	0.53	180.48	6.35	181.00	13.72
179.45	0.02	179.97	0.59	180.49	6.50	181.01	13.75
179.46	0.02	179.98	0.66	180.50	6.65	181.02	13.77
179.47	0.02	179.99	0.73	180.51	6.80	181.03	13.80
179.48	0.03	180.00	0.80	180.52	6.95	181.04	13.83
179.49	0.03	180.01	0.88	180.53	7.10	181.05	13.85
179.50	0.03	180.02	0.95	180.54	7.26	181.06	13.88
179.51	0.04	180.03	1.03	180.55	7.41	181.07	13.90

Stage-Discharge for Pond B-17B: Basin #17B (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
181.08	13.93	181.60	15.22	182.12	24.68	182.64	97.19
181.09	13.96	181.61	15.24	182.13	25.45	182.65	98.96
181.10	13.98	181.62	15.27	182.14	26.23	182.66	100.74
181.11	14.01	181.63	15.29	182.15	27.04	182.67	102.53
181.12	14.03	181.64	15.32	182.16	27.91	182.68	104.34
181.13	14.06	181.65	15.34	182.17	28.81	182.69	106.15
181.14	14.08	181.66	15.36	182.18	29.72	182.70	107.98
181.15	14.11	181.67	15.39	182.19	30.67	182.71	109.82
181.16	14.14	181.68	15.41	182.20	31.64	182.72	111.68
181.17	14.16	181.69	15.43	182.21	32.64	182.73	113.54
181.18	14.19	181.70	15.46	182.22	33.66	182.74	115.42
181.19	14.21	181.71	15.48	182.23	34.70	182.75	117.31
181.20	14.24	181.72	15.50	182.24	35.77	182.76	119.25
181.21	14.26	181.73	15.53	182.25	36.86	182.77	121.20
181.22	14.29	181.74	15.55	182.26	37.98	182.78	123.17
181.23	14.31	181.75	15.57	182.27	39.13	182.79	125.15
181.24	14.34	181.76	15.60	182.28	40.29	182.80	127.14
181.25	14.36	181.77	15.62	182.29	41.48	182.81	129.15
181.26	14.39	181.78	15.64	182.30	42.70	182.82	131.17
181.27	14.41	181.79	15.67	182.31	43.94	182.83	133.20
181.28	14.44	181.80	15.69	182.32	45.20	182.84	135.25
181.29	14.46	181.81	15.71	182.33	46.49	182.85	137.30
181.30	14.49	181.82	15.74	182.34	47.80	182.86	139.37
181.31	14.51	181.83	15.76	182.35	49.14	182.87	141.46
181.32	14.54	181.84	15.78	182.36	50.53	182.88	143.55
181.33	14.56	181.85	15.80	182.37	51.94	182.89	145.66
181.34	14.59	181.86	15.83	182.38	53.38	182.90	147.78
181.35	14.61	181.87	15.85	182.39	54.85	182.91	149.92
181.36	14.64	181.88	15.87	182.40	56.34	182.92	152.07
181.37	14.66	181.89	15.90	182.41	57.85	182.93	154.23
181.38	14.69	181.90	15.92	182.42	59.40	182.94	156.40
181.39	14.71	181.91	15.94	182.43	60.97	182.95	158.58
181.40	14.74	181.92	15.96	182.44	62.57	182.96	160.73
181.41	14.76	181.93	15.99	182.45	64.19	182.97	162.88
181.42	14.79	181.94	16.01	182.46	65.84	182.98	165.05
181.43	14.81	181.95	16.03	182.47	67.51	182.99	167.22
181.44	14.84	181.96	16.17	182.48	69.22	183.00	169.41
181.45	14.86	181.97	16.41	182.49	70.95		
181.46	14.88	181.98	16.71	182.50	72.70		
181.47	14.91	181.99	17.06	182.51	74.48		
181.48	14.93	182.00	17.46	182.52	76.29		
181.49	14.96	182.01	17.89	182.53	78.13		
181.50	14.98	182.02	18.36	182.54	79.99		
181.51	15.01	182.03	18.87	182.55	81.88		
181.52	15.03	182.04	19.41	182.56	83.53		
181.53	15.05	182.05	19.97	182.57	85.19		
181.54	15.08	182.06	20.57	182.58	86.87		
181.55	15.10	182.07	21.19	182.59	88.55		
181.56	15.13	182.08	21.84	182.60	90.26		
181.57	15.15	182.09	22.51	182.61	91.97		
181.58	15.17	182.10	23.21	182.62	93.70		
181.59	15.20	182.11	23.93	182.63	95.44		

Stage-Area-Storage for Pond B-17B: Basin #17B

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
179.00	6,855	0	179.52	7,468	3,724
179.01	6,867	69	179.53	7,479	3,799
179.02	6,879	137	179.54	7,491	3,873
179.03	6,890	206	179.55	7,503	3,948
179.04	6,902	275	179.56	7,515	4,024
179.05	6,914	344	179.57	7,526	4,099
179.06	6,926	413	179.58	7,538	4,174
179.07	6,937	483	179.59	7,550	4,249
179.08	6,949	552	179.60	7,562	4,325
179.09	6,961	622	179.61	7,574	4,401
179.10	6,973	691	179.62	7,585	4,477
179.11	6,985	761	179.63	7,597	4,552
179.12	6,996	831	179.64	7,609	4,628
179.13	7,008	901	179.65	7,621	4,705
179.14	7,020	971	179.66	7,632	4,781
179.15	7,032	1,042	179.67	7,644	4,857
179.16	7,043	1,112	179.68	7,656	4,934
179.17	7,055	1,182	179.69	7,668	5,010
179.18	7,067	1,253	179.70	7,680	5,087
179.19	7,079	1,324	179.71	7,691	5,164
179.20	7,091	1,395	179.72	7,703	5,241
179.21	7,102	1,466	179.73	7,715	5,318
179.22	7,114	1,537	179.74	7,727	5,395
179.23	7,126	1,608	179.75	7,739	5,473
179.24	7,138	1,679	179.76	7,750	5,550
179.25	7,150	1,751	179.77	7,762	5,628
179.26	7,161	1,822	179.78	7,774	5,705
179.27	7,173	1,894	179.79	7,786	5,783
179.28	7,185	1,966	179.80	7,797	5,861
179.29	7,197	2,037	179.81	7,809	5,939
179.30	7,208	2,110	179.82	7,821	6,017
179.31	7,220	2,182	179.83	7,833	6,095
179.32	7,232	2,254	179.84	7,845	6,174
179.33	7,244	2,326	179.85	7,856	6,252
179.34	7,256	2,399	179.86	7,868	6,331
179.35	7,267	2,471	179.87	7,880	6,410
179.36	7,279	2,544	179.88	7,892	6,489
179.37	7,291	2,617	179.89	7,903	6,567
179.38	7,303	2,690	179.90	7,915	6,647
179.39	7,314	2,763	179.91	7,927	6,726
179.40	7,326	2,836	179.92	7,939	6,805
179.41	7,338	2,910	179.93	7,951	6,885
179.42	7,350	2,983	179.94	7,962	6,964
179.43	7,362	3,057	179.95	7,974	7,044
179.44	7,373	3,130	179.96	7,986	7,124
179.45	7,385	3,204	179.97	7,998	7,204
179.46	7,397	3,278	179.98	8,009	7,284
179.47	7,409	3,352	179.99	8,021	7,364
179.48	7,420	3,426	180.00	8,033	7,444
179.49	7,432	3,500	180.01	8,045	7,524
179.50	7,444	3,575	180.02	8,058	7,605
179.51	7,456	3,649	180.03	8,070	7,686

Stage-Area-Storage for Pond B-17B: Basin #17B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
180.04	8,082	7,766	180.56	8,725	12,136
180.05	8,095	7,847	180.57	8,737	12,223
180.06	8,107	7,928	180.58	8,749	12,311
180.07	8,119	8,009	180.59	8,762	12,398
180.08	8,132	8,091	180.60	8,774	12,486
180.09	8,144	8,172	180.61	8,786	12,574
180.10	8,156	8,253	180.62	8,799	12,662
180.11	8,169	8,335	180.63	8,811	12,750
180.12	8,181	8,417	180.64	8,823	12,838
180.13	8,194	8,499	180.65	8,836	12,926
180.14	8,206	8,581	180.66	8,848	13,015
180.15	8,218	8,663	180.67	8,860	13,103
180.16	8,231	8,745	180.68	8,873	13,192
180.17	8,243	8,827	180.69	8,885	13,281
180.18	8,255	8,910	180.70	8,897	13,370
180.19	8,268	8,993	180.71	8,910	13,459
180.20	8,280	9,075	180.72	8,922	13,548
180.21	8,292	9,158	180.73	8,935	13,637
180.22	8,305	9,241	180.74	8,947	13,727
180.23	8,317	9,324	180.75	8,959	13,816
180.24	8,329	9,407	180.76	8,972	13,906
180.25	8,342	9,491	180.77	8,984	13,996
180.26	8,354	9,574	180.78	8,996	14,085
180.27	8,366	9,658	180.79	9,009	14,175
180.28	8,379	9,742	180.80	9,021	14,266
180.29	8,391	9,826	180.81	9,033	14,356
180.30	8,404	9,909	180.82	9,046	14,446
180.31	8,416	9,994	180.83	9,058	14,537
180.32	8,428	10,078	180.84	9,070	14,627
180.33	8,441	10,162	180.85	9,083	14,718
180.34	8,453	10,247	180.86	9,095	14,809
180.35	8,465	10,331	180.87	9,107	14,900
180.36	8,478	10,416	180.88	9,120	14,991
180.37	8,490	10,501	180.89	9,132	15,082
180.38	8,502	10,586	180.90	9,145	15,174
180.39	8,515	10,671	180.91	9,157	15,265
180.40	8,527	10,756	180.92	9,169	15,357
180.41	8,539	10,841	180.93	9,182	15,449
180.42	8,552	10,927	180.94	9,194	15,541
180.43	8,564	11,012	180.95	9,206	15,633
180.44	8,576	11,098	180.96	9,219	15,725
180.45	8,589	11,184	180.97	9,231	15,817
180.46	8,601	11,270	180.98	9,243	15,909
180.47	8,613	11,356	180.99	9,256	16,002
180.48	8,626	11,442	181.00	9,268	16,095
180.49	8,638	11,528	181.01	9,281	16,187
180.50	8,651	11,615	181.02	9,294	16,280
180.51	8,663	11,701	181.03	9,307	16,373
180.52	8,675	11,788	181.04	9,320	16,466
180.53	8,688	11,875	181.05	9,333	16,560
180.54	8,700	11,962	181.06	9,346	16,653
180.55	8,712	12,049	181.07	9,358	16,746

Stage-Area-Storage for Pond B-17B: Basin #17B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
181.08	9,371	16,840	181.60	10,043	21,888
181.09	9,384	16,934	181.61	10,056	21,988
181.10	9,397	17,028	181.62	10,069	22,089
181.11	9,410	17,122	181.63	10,082	22,190
181.12	9,423	17,216	181.64	10,095	22,291
181.13	9,436	17,310	181.65	10,108	22,392
181.14	9,449	17,405	181.66	10,121	22,493
181.15	9,462	17,499	181.67	10,134	22,594
181.16	9,475	17,594	181.68	10,147	22,695
181.17	9,488	17,689	181.69	10,159	22,797
181.18	9,501	17,784	181.70	10,172	22,899
181.19	9,513	17,879	181.71	10,185	23,000
181.20	9,526	17,974	181.72	10,198	23,102
181.21	9,539	18,069	181.73	10,211	23,204
181.22	9,552	18,165	181.74	10,224	23,307
181.23	9,565	18,260	181.75	10,237	23,409
181.24	9,578	18,356	181.76	10,250	23,511
181.25	9,591	18,452	181.77	10,263	23,614
181.26	9,604	18,548	181.78	10,276	23,717
181.27	9,617	18,644	181.79	10,289	23,819
181.28	9,630	18,740	181.80	10,302	23,922
181.29	9,643	18,837	181.81	10,315	24,025
181.30	9,656	18,933	181.82	10,327	24,129
181.31	9,669	19,030	181.83	10,340	24,232
181.32	9,681	19,126	181.84	10,353	24,335
181.33	9,694	19,223	181.85	10,366	24,439
181.34	9,707	19,320	181.86	10,379	24,543
181.35	9,720	19,417	181.87	10,392	24,647
181.36	9,733	19,515	181.88	10,405	24,751
181.37	9,746	19,612	181.89	10,418	24,855
181.38	9,759	19,710	181.90	10,431	24,959
181.39	9,772	19,807	181.91	10,444	25,063
181.40	9,785	19,905	181.92	10,457	25,168
181.41	9,798	20,003	181.93	10,470	25,272
181.42	9,811	20,101	181.94	10,482	25,377
181.43	9,824	20,199	181.95	10,495	25,482
181.44	9,836	20,297	181.96	10,508	25,587
181.45	9,849	20,396	181.97	10,521	25,692
181.46	9,862	20,494	181.98	10,534	25,798
181.47	9,875	20,593	181.99	10,547	25,903
181.48	9,888	20,692	182.00	10,560	26,009
181.49	9,901	20,791	182.01	10,573	26,114
181.50	9,914	20,890	182.02	10,587	26,220
181.51	9,927	20,989	182.03	10,600	26,326
181.52	9,940	21,089	182.04	10,614	26,432
181.53	9,953	21,188	182.05	10,627	26,538
181.54	9,966	21,288	182.06	10,641	26,645
181.55	9,979	21,387	182.07	10,654	26,751
181.56	9,992	21,487	182.08	10,668	26,858
181.57	10,004	21,587	182.09	10,681	26,964
181.58	10,017	21,687	182.10	10,695	27,071
181.59	10,030	21,787	182.11	10,708	27,178

Stage-Area-Storage for Pond B-17B: Basin #17B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
182.12	10,722	27,285	182.64	11,422	33,043
182.13	10,735	27,393	182.65	11,436	33,157
182.14	10,749	27,500	182.66	11,449	33,271
182.15	10,762	27,608	182.67	11,462	33,386
182.16	10,776	27,715	182.68	11,476	33,501
182.17	10,789	27,823	182.69	11,489	33,616
182.18	10,802	27,931	182.70	11,503	33,731
182.19	10,816	28,039	182.71	11,516	33,846
182.20	10,829	28,147	182.72	11,530	33,961
182.21	10,843	28,256	182.73	11,543	34,076
182.22	10,856	28,364	182.74	11,557	34,192
182.23	10,870	28,473	182.75	11,570	34,307
182.24	10,883	28,582	182.76	11,584	34,423
182.25	10,897	28,691	182.77	11,597	34,539
182.26	10,910	28,800	182.78	11,611	34,655
182.27	10,924	28,909	182.79	11,624	34,771
182.28	10,937	29,018	182.80	11,638	34,888
182.29	10,951	29,128	182.81	11,651	35,004
182.30	10,964	29,237	182.82	11,665	35,121
182.31	10,978	29,347	182.83	11,678	35,237
182.32	10,991	29,457	182.84	11,691	35,354
182.33	11,005	29,567	182.85	11,705	35,471
182.34	11,018	29,677	182.86	11,718	35,588
182.35	11,031	29,787	182.87	11,732	35,705
182.36	11,045	29,897	182.88	11,745	35,823
182.37	11,058	30,008	182.89	11,759	35,940
182.38	11,072	30,119	182.90	11,772	36,058
182.39	11,085	30,229	182.91	11,786	36,176
182.40	11,099	30,340	182.92	11,799	36,294
182.41	11,112	30,451	182.93	11,813	36,412
182.42	11,126	30,563	182.94	11,826	36,530
182.43	11,139	30,674	182.95	11,840	36,648
182.44	11,153	30,785	182.96	11,853	36,767
182.45	11,166	30,897	182.97	11,867	36,885
182.46	11,180	31,009	182.98	11,880	37,004
182.47	11,193	31,120	182.99	11,894	37,123
182.48	11,207	31,232	183.00	11,907	37,242
182.49	11,220	31,345			
182.50	11,234	31,457			
182.51	11,247	31,569			
182.52	11,260	31,682			
182.53	11,274	31,794			
182.54	11,287	31,907			
182.55	11,301	32,020			
182.56	11,314	32,133			
182.57	11,328	32,247			
182.58	11,341	32,360			
182.59	11,355	32,473			
182.60	11,368	32,587			
182.61	11,382	32,701			
182.62	11,395	32,815			
182.63	11,409	32,929			

Summary for Pond B-2: Basin #2

Inflow Area = 1.894 ac, 38.23% Impervious, Inflow Depth = 3.37" for Current 10 yr event
 Inflow = 6.52 cfs @ 12.17 hrs, Volume= 0.532 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 100%, Lag= 0.0 min
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
 Routed to Pond B-1 : Basin #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 211.38' @ 24.60 hrs Surf.Area= 9,767 sf Storage= 23,162 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= (not calculated: no outflow)

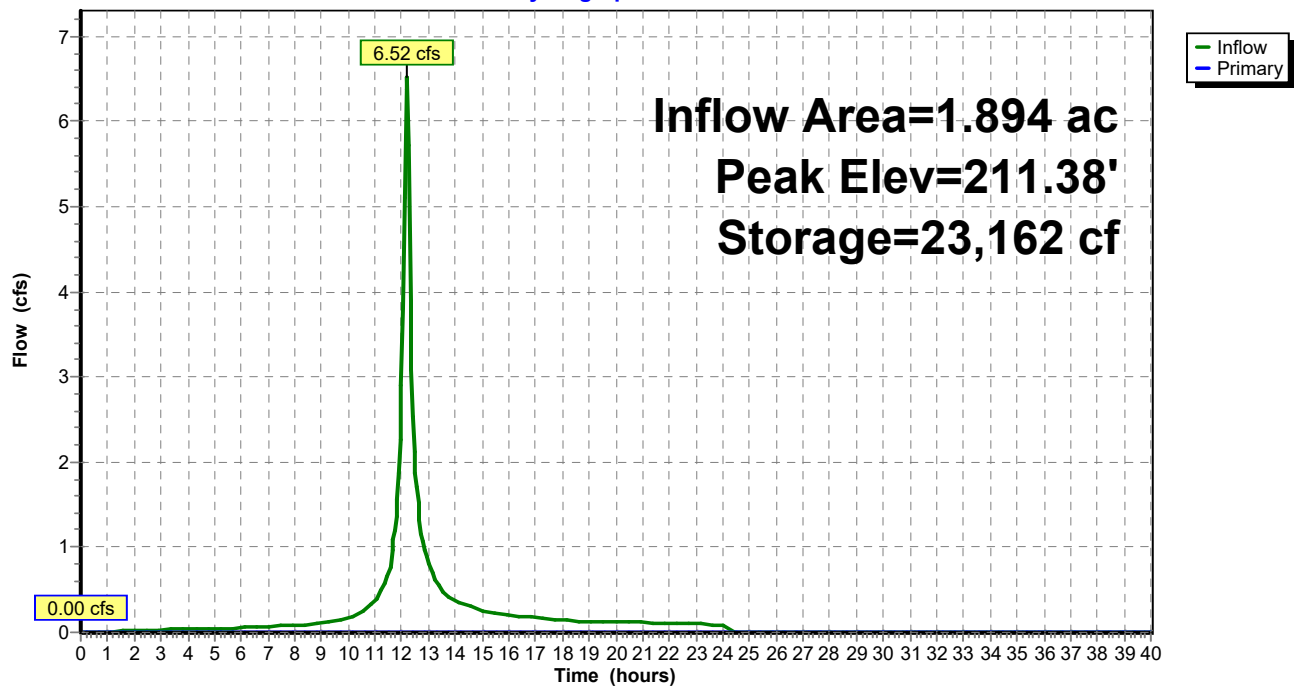
Volume	Invert	Avail.Storage	Storage Description
#1	208.30'	29,385 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
208.30	0	0	0
209.00	7,501	2,625	2,625
210.00	8,431	7,966	10,591
211.00	9,390	8,911	19,502
212.00	10,376	9,883	29,385

Device	Routing	Invert	Outlet Devices
#1	Primary	211.50'	50.0' long + 3.0 ' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=208.30' (Free Discharge)

↑1=**Broad-Crested Rectangular Weir**(Controls 0.00 cfs)

Pond B-2: Basin #2**Hydrograph**

Stage-Discharge for Pond B-2: Basin #2

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
208.30	0.00	208.82	0.00	209.34	0.00	209.86	0.00
208.31	0.00	208.83	0.00	209.35	0.00	209.87	0.00
208.32	0.00	208.84	0.00	209.36	0.00	209.88	0.00
208.33	0.00	208.85	0.00	209.37	0.00	209.89	0.00
208.34	0.00	208.86	0.00	209.38	0.00	209.90	0.00
208.35	0.00	208.87	0.00	209.39	0.00	209.91	0.00
208.36	0.00	208.88	0.00	209.40	0.00	209.92	0.00
208.37	0.00	208.89	0.00	209.41	0.00	209.93	0.00
208.38	0.00	208.90	0.00	209.42	0.00	209.94	0.00
208.39	0.00	208.91	0.00	209.43	0.00	209.95	0.00
208.40	0.00	208.92	0.00	209.44	0.00	209.96	0.00
208.41	0.00	208.93	0.00	209.45	0.00	209.97	0.00
208.42	0.00	208.94	0.00	209.46	0.00	209.98	0.00
208.43	0.00	208.95	0.00	209.47	0.00	209.99	0.00
208.44	0.00	208.96	0.00	209.48	0.00	210.00	0.00
208.45	0.00	208.97	0.00	209.49	0.00	210.01	0.00
208.46	0.00	208.98	0.00	209.50	0.00	210.02	0.00
208.47	0.00	208.99	0.00	209.51	0.00	210.03	0.00
208.48	0.00	209.00	0.00	209.52	0.00	210.04	0.00
208.49	0.00	209.01	0.00	209.53	0.00	210.05	0.00
208.50	0.00	209.02	0.00	209.54	0.00	210.06	0.00
208.51	0.00	209.03	0.00	209.55	0.00	210.07	0.00
208.52	0.00	209.04	0.00	209.56	0.00	210.08	0.00
208.53	0.00	209.05	0.00	209.57	0.00	210.09	0.00
208.54	0.00	209.06	0.00	209.58	0.00	210.10	0.00
208.55	0.00	209.07	0.00	209.59	0.00	210.11	0.00
208.56	0.00	209.08	0.00	209.60	0.00	210.12	0.00
208.57	0.00	209.09	0.00	209.61	0.00	210.13	0.00
208.58	0.00	209.10	0.00	209.62	0.00	210.14	0.00
208.59	0.00	209.11	0.00	209.63	0.00	210.15	0.00
208.60	0.00	209.12	0.00	209.64	0.00	210.16	0.00
208.61	0.00	209.13	0.00	209.65	0.00	210.17	0.00
208.62	0.00	209.14	0.00	209.66	0.00	210.18	0.00
208.63	0.00	209.15	0.00	209.67	0.00	210.19	0.00
208.64	0.00	209.16	0.00	209.68	0.00	210.20	0.00
208.65	0.00	209.17	0.00	209.69	0.00	210.21	0.00
208.66	0.00	209.18	0.00	209.70	0.00	210.22	0.00
208.67	0.00	209.19	0.00	209.71	0.00	210.23	0.00
208.68	0.00	209.20	0.00	209.72	0.00	210.24	0.00
208.69	0.00	209.21	0.00	209.73	0.00	210.25	0.00
208.70	0.00	209.22	0.00	209.74	0.00	210.26	0.00
208.71	0.00	209.23	0.00	209.75	0.00	210.27	0.00
208.72	0.00	209.24	0.00	209.76	0.00	210.28	0.00
208.73	0.00	209.25	0.00	209.77	0.00	210.29	0.00
208.74	0.00	209.26	0.00	209.78	0.00	210.30	0.00
208.75	0.00	209.27	0.00	209.79	0.00	210.31	0.00
208.76	0.00	209.28	0.00	209.80	0.00	210.32	0.00
208.77	0.00	209.29	0.00	209.81	0.00	210.33	0.00
208.78	0.00	209.30	0.00	209.82	0.00	210.34	0.00
208.79	0.00	209.31	0.00	209.83	0.00	210.35	0.00
208.80	0.00	209.32	0.00	209.84	0.00	210.36	0.00
208.81	0.00	209.33	0.00	209.85	0.00	210.37	0.00

Stage-Discharge for Pond B-2: Basin #2 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
210.38	0.00	210.90	0.00	211.42	0.00	211.94	37.85
210.39	0.00	210.91	0.00	211.43	0.00	211.95	39.32
210.40	0.00	210.92	0.00	211.44	0.00	211.96	40.82
210.41	0.00	210.93	0.00	211.45	0.00	211.97	42.34
210.42	0.00	210.94	0.00	211.46	0.00	211.98	43.89
210.43	0.00	210.95	0.00	211.47	0.00	211.99	45.46
210.44	0.00	210.96	0.00	211.48	0.00	212.00	47.07
210.45	0.00	210.97	0.00	211.49	0.00		
210.46	0.00	210.98	0.00	211.50	0.00		
210.47	0.00	210.99	0.00	211.51	0.12		
210.48	0.00	211.00	0.00	211.52	0.33		
210.49	0.00	211.01	0.00	211.53	0.61		
210.50	0.00	211.02	0.00	211.54	0.94		
210.51	0.00	211.03	0.00	211.55	1.31		
210.52	0.00	211.04	0.00	211.56	1.72		
210.53	0.00	211.05	0.00	211.57	2.17		
210.54	0.00	211.06	0.00	211.58	2.66		
210.55	0.00	211.07	0.00	211.59	3.17		
210.56	0.00	211.08	0.00	211.60	3.72		
210.57	0.00	211.09	0.00	211.61	4.29		
210.58	0.00	211.10	0.00	211.62	4.89		
210.59	0.00	211.11	0.00	211.63	5.52		
210.60	0.00	211.12	0.00	211.64	6.17		
210.61	0.00	211.13	0.00	211.65	6.85		
210.62	0.00	211.14	0.00	211.66	7.55		
210.63	0.00	211.15	0.00	211.67	8.27		
210.64	0.00	211.16	0.00	211.68	9.01		
210.65	0.00	211.17	0.00	211.69	9.78		
210.66	0.00	211.18	0.00	211.70	10.57		
210.67	0.00	211.19	0.00	211.71	11.41		
210.68	0.00	211.20	0.00	211.72	12.28		
210.69	0.00	211.21	0.00	211.73	13.18		
210.70	0.00	211.22	0.00	211.74	14.11		
210.71	0.00	211.23	0.00	211.75	15.05		
210.72	0.00	211.24	0.00	211.76	16.03		
210.73	0.00	211.25	0.00	211.77	17.03		
210.74	0.00	211.26	0.00	211.78	18.05		
210.75	0.00	211.27	0.00	211.79	19.10		
210.76	0.00	211.28	0.00	211.80	20.17		
210.77	0.00	211.29	0.00	211.81	21.27		
210.78	0.00	211.30	0.00	211.82	22.39		
210.79	0.00	211.31	0.00	211.83	23.53		
210.80	0.00	211.32	0.00	211.84	24.70		
210.81	0.00	211.33	0.00	211.85	25.90		
210.82	0.00	211.34	0.00	211.86	27.11		
210.83	0.00	211.35	0.00	211.87	28.36		
210.84	0.00	211.36	0.00	211.88	29.62		
210.85	0.00	211.37	0.00	211.89	30.92		
210.86	0.00	211.38	0.00	211.90	32.23		
210.87	0.00	211.39	0.00	211.91	33.60		
210.88	0.00	211.40	0.00	211.92	34.99		
210.89	0.00	211.41	0.00	211.93	36.41		

Stage-Area-Storage for Pond B-2: Basin #2

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
208.30	0	0	208.82	5,572	1,449
208.31	107	1	208.83	5,679	1,505
208.32	214	2	208.84	5,786	1,562
208.33	321	5	208.85	5,894	1,621
208.34	429	9	208.86	6,001	1,680
208.35	536	13	208.87	6,108	1,741
208.36	643	19	208.88	6,215	1,802
208.37	750	26	208.89	6,322	1,865
208.38	857	34	208.90	6,429	1,929
208.39	964	43	208.91	6,537	1,994
208.40	1,072	54	208.92	6,644	2,060
208.41	1,179	65	208.93	6,751	2,127
208.42	1,286	77	208.94	6,858	2,195
208.43	1,393	91	208.95	6,965	2,264
208.44	1,500	105	208.96	7,072	2,334
208.45	1,607	121	208.97	7,180	2,405
208.46	1,715	137	208.98	7,287	2,477
208.47	1,822	155	208.99	7,394	2,551
208.48	1,929	174	209.00	7,501	2,625
208.49	2,036	193	209.01	7,510	2,700
208.50	2,143	214	209.02	7,520	2,776
208.51	2,250	236	209.03	7,529	2,851
208.52	2,357	259	209.04	7,538	2,926
208.53	2,465	283	209.05	7,548	3,002
208.54	2,572	309	209.06	7,557	3,077
208.55	2,679	335	209.07	7,566	3,153
208.56	2,786	362	209.08	7,575	3,228
208.57	2,893	391	209.09	7,585	3,304
208.58	3,000	420	209.10	7,594	3,380
208.59	3,108	451	209.11	7,603	3,456
208.60	3,215	482	209.12	7,613	3,532
208.61	3,322	515	209.13	7,622	3,608
208.62	3,429	549	209.14	7,631	3,685
208.63	3,536	583	209.15	7,641	3,761
208.64	3,643	619	209.16	7,650	3,837
208.65	3,751	656	209.17	7,659	3,914
208.66	3,858	694	209.18	7,668	3,991
208.67	3,965	733	209.19	7,678	4,067
208.68	4,072	774	209.20	7,687	4,144
208.69	4,179	815	209.21	7,696	4,221
208.70	4,286	857	209.22	7,706	4,298
208.71	4,393	901	209.23	7,715	4,375
208.72	4,501	945	209.24	7,724	4,452
208.73	4,608	991	209.25	7,734	4,530
208.74	4,715	1,037	209.26	7,743	4,607
208.75	4,822	1,085	209.27	7,752	4,685
208.76	4,929	1,134	209.28	7,761	4,762
208.77	5,036	1,184	209.29	7,771	4,840
208.78	5,144	1,234	209.30	7,780	4,918
208.79	5,251	1,286	209.31	7,789	4,995
208.80	5,358	1,339	209.32	7,799	5,073
208.81	5,465	1,394	209.33	7,808	5,151

Stage-Area-Storage for Pond B-2: Basin #2 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
209.34	7,817	5,229	209.86	8,301	9,420
209.35	7,827	5,308	209.87	8,310	9,503
209.36	7,836	5,386	209.88	8,319	9,586
209.37	7,845	5,464	209.89	8,329	9,670
209.38	7,854	5,543	209.90	8,338	9,753
209.39	7,864	5,621	209.91	8,347	9,836
209.40	7,873	5,700	209.92	8,357	9,920
209.41	7,882	5,779	209.93	8,366	10,003
209.42	7,892	5,858	209.94	8,375	10,087
209.43	7,901	5,937	209.95	8,385	10,171
209.44	7,910	6,016	209.96	8,394	10,255
209.45	7,920	6,095	209.97	8,403	10,339
209.46	7,929	6,174	209.98	8,412	10,423
209.47	7,938	6,254	209.99	8,422	10,507
209.48	7,947	6,333	210.00	8,431	10,591
209.49	7,957	6,412	210.01	8,441	10,676
209.50	7,966	6,492	210.02	8,450	10,760
209.51	7,975	6,572	210.03	8,460	10,845
209.52	7,985	6,652	210.04	8,469	10,929
209.53	7,994	6,731	210.05	8,479	11,014
209.54	8,003	6,811	210.06	8,489	11,099
209.55	8,013	6,892	210.07	8,498	11,184
209.56	8,022	6,972	210.08	8,508	11,269
209.57	8,031	7,052	210.09	8,517	11,354
209.58	8,040	7,132	210.10	8,527	11,439
209.59	8,050	7,213	210.11	8,536	11,525
209.60	8,059	7,293	210.12	8,546	11,610
209.61	8,068	7,374	210.13	8,556	11,695
209.62	8,078	7,455	210.14	8,565	11,781
209.63	8,087	7,536	210.15	8,575	11,867
209.64	8,096	7,616	210.16	8,584	11,953
209.65	8,106	7,697	210.17	8,594	12,038
209.66	8,115	7,779	210.18	8,604	12,124
209.67	8,124	7,860	210.19	8,613	12,211
209.68	8,133	7,941	210.20	8,623	12,297
209.69	8,143	8,022	210.21	8,632	12,383
209.70	8,152	8,104	210.22	8,642	12,469
209.71	8,161	8,185	210.23	8,652	12,556
209.72	8,171	8,267	210.24	8,661	12,642
209.73	8,180	8,349	210.25	8,671	12,729
209.74	8,189	8,431	210.26	8,680	12,816
209.75	8,199	8,513	210.27	8,690	12,903
209.76	8,208	8,595	210.28	8,700	12,990
209.77	8,217	8,677	210.29	8,709	13,077
209.78	8,226	8,759	210.30	8,719	13,164
209.79	8,236	8,841	210.31	8,728	13,251
209.80	8,245	8,924	210.32	8,738	13,338
209.81	8,254	9,006	210.33	8,747	13,426
209.82	8,264	9,089	210.34	8,757	13,513
209.83	8,273	9,172	210.35	8,767	13,601
209.84	8,282	9,254	210.36	8,776	13,689
209.85	8,292	9,337	210.37	8,786	13,776

Stage-Area-Storage for Pond B-2: Basin #2 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
210.38	8,795	13,864	210.90	9,294	18,568
210.39	8,805	13,952	210.91	9,304	18,661
210.40	8,815	14,040	210.92	9,313	18,754
210.41	8,824	14,129	210.93	9,323	18,847
210.42	8,834	14,217	210.94	9,332	18,940
210.43	8,843	14,305	210.95	9,342	19,034
210.44	8,853	14,394	210.96	9,352	19,127
210.45	8,863	14,482	210.97	9,361	19,221
210.46	8,872	14,571	210.98	9,371	19,314
210.47	8,882	14,660	210.99	9,380	19,408
210.48	8,891	14,749	211.00	9,390	19,502
210.49	8,901	14,838	211.01	9,400	19,596
210.50	8,911	14,927	211.02	9,410	19,690
210.51	8,920	15,016	211.03	9,420	19,784
210.52	8,930	15,105	211.04	9,429	19,878
210.53	8,939	15,194	211.05	9,439	19,973
210.54	8,949	15,284	211.06	9,449	20,067
210.55	8,958	15,373	211.07	9,459	20,162
210.56	8,968	15,463	211.08	9,469	20,256
210.57	8,978	15,553	211.09	9,479	20,351
210.58	8,987	15,643	211.10	9,489	20,446
210.59	8,997	15,733	211.11	9,498	20,541
210.60	9,006	15,823	211.12	9,508	20,636
210.61	9,016	15,913	211.13	9,518	20,731
210.62	9,026	16,003	211.14	9,528	20,826
210.63	9,035	16,093	211.15	9,538	20,921
210.64	9,045	16,184	211.16	9,548	21,017
210.65	9,054	16,274	211.17	9,558	21,112
210.66	9,064	16,365	211.18	9,567	21,208
210.67	9,074	16,455	211.19	9,577	21,304
210.68	9,083	16,546	211.20	9,587	21,400
210.69	9,093	16,637	211.21	9,597	21,495
210.70	9,102	16,728	211.22	9,607	21,592
210.71	9,112	16,819	211.23	9,617	21,688
210.72	9,121	16,910	211.24	9,627	21,784
210.73	9,131	17,002	211.25	9,637	21,880
210.74	9,141	17,093	211.26	9,646	21,977
210.75	9,150	17,184	211.27	9,656	22,073
210.76	9,160	17,276	211.28	9,666	22,170
210.77	9,169	17,368	211.29	9,676	22,266
210.78	9,179	17,459	211.30	9,686	22,363
210.79	9,189	17,551	211.31	9,696	22,460
210.80	9,198	17,643	211.32	9,706	22,557
210.81	9,208	17,735	211.33	9,715	22,654
210.82	9,217	17,827	211.34	9,725	22,751
210.83	9,227	17,919	211.35	9,735	22,849
210.84	9,237	18,012	211.36	9,745	22,946
210.85	9,246	18,104	211.37	9,755	23,044
210.86	9,256	18,197	211.38	9,765	23,141
210.87	9,265	18,289	211.39	9,775	23,239
210.88	9,275	18,382	211.40	9,784	23,337
210.89	9,285	18,475	211.41	9,794	23,435

Stage-Area-Storage for Pond B-2: Basin #2 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
211.42	9,804	23,533	211.94	10,317	28,764
211.43	9,814	23,631	211.95	10,327	28,867
211.44	9,824	23,729	211.96	10,337	28,971
211.45	9,834	23,827	211.97	10,346	29,074
211.46	9,844	23,926	211.98	10,356	29,178
211.47	9,853	24,024	211.99	10,366	29,281
211.48	9,863	24,123	212.00	10,376	29,385
211.49	9,873	24,221			
211.50	9,883	24,320			
211.51	9,893	24,419			
211.52	9,903	24,518			
211.53	9,913	24,617			
211.54	9,922	24,716			
211.55	9,932	24,815			
211.56	9,942	24,915			
211.57	9,952	25,014			
211.58	9,962	25,114			
211.59	9,972	25,214			
211.60	9,982	25,313			
211.61	9,991	25,413			
211.62	10,001	25,513			
211.63	10,011	25,613			
211.64	10,021	25,713			
211.65	10,031	25,814			
211.66	10,041	25,914			
211.67	10,051	26,014			
211.68	10,060	26,115			
211.69	10,070	26,216			
211.70	10,080	26,316			
211.71	10,090	26,417			
211.72	10,100	26,518			
211.73	10,110	26,619			
211.74	10,120	26,720			
211.75	10,130	26,822			
211.76	10,139	26,923			
211.77	10,149	27,024			
211.78	10,159	27,126			
211.79	10,169	27,228			
211.80	10,179	27,329			
211.81	10,189	27,431			
211.82	10,199	27,533			
211.83	10,208	27,635			
211.84	10,218	27,737			
211.85	10,228	27,840			
211.86	10,238	27,942			
211.87	10,248	28,044			
211.88	10,258	28,147			
211.89	10,268	28,249			
211.90	10,277	28,352			
211.91	10,287	28,455			
211.92	10,297	28,558			
211.93	10,307	28,661			

Summary for Pond B-3: Basin #3

Inflow Area = 1.554 ac, 38.35% Impervious, Inflow Depth = 3.37" for Current 10 yr event
 Inflow = 5.35 cfs @ 12.17 hrs, Volume= 0.437 af
 Outflow = 0.17 cfs @ 15.97 hrs, Volume= 0.358 af, Atten= 97%, Lag= 227.8 min
 Primary = 0.17 cfs @ 15.97 hrs, Volume= 0.358 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 214.09' @ 15.97 hrs Surf.Area= 12,926 sf Storage= 12,463 cf

Plug-Flow detention time= 700.5 min calculated for 0.358 af (82% of inflow)
 Center-of-Mass det. time= 623.4 min (1,416.4 - 793.0)

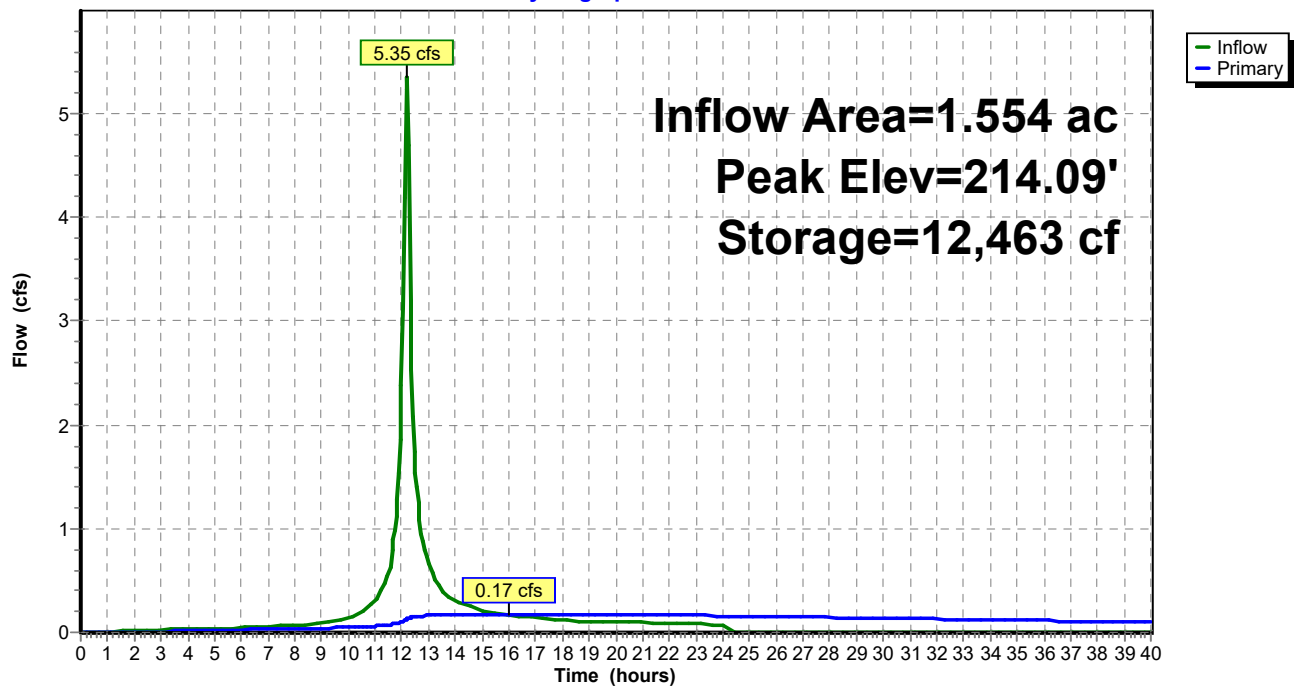
Volume	Invert	Avail.Storage	Storage Description
#1	213.00'	56,991 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
213.00	9,992	0	0
214.00	12,685	11,339	11,339
215.00	15,435	14,060	25,399
216.00	18,241	16,838	42,237
216.75	21,104	14,754	56,991

Device	Routing	Invert	Outlet Devices
#1	Primary	212.30'	18.0" Round Culvert L= 151.0' Ke= 0.500 Inlet / Outlet Invert= 212.30' / 202.00' S= 0.0682 ' S= 0.0682 ' Cc= 0.900 n= 0.013 Concrete pipe, straight & clean, Flow Area= 1.77 sf
#2	Device 1	212.90'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	215.50'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	216.70'	50.0' long + 3.0 ' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.17 cfs @ 15.97 hrs HW=214.09' (Free Discharge)

1=Culvert (Passes 0.17 cfs of 8.67 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.17 cfs @ 5.01 fps)
 3=Sharp-Crested Rectangular Weir(Controls 0.00 cfs)
 4=Broad-Crested Rectangular Weir(Controls 0.00 cfs)

Pond B-3: Basin #3**Hydrograph**

Stage-Discharge for Pond B-3: Basin #3

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
213.00	0.00	213.52	0.12	214.04	0.17	214.56	0.20
213.01	0.02	213.53	0.12	214.05	0.17	214.57	0.21
213.02	0.02	213.54	0.12	214.06	0.17	214.58	0.21
213.03	0.03	213.55	0.12	214.07	0.17	214.59	0.21
213.04	0.03	213.56	0.12	214.08	0.17	214.60	0.21
213.05	0.03	213.57	0.12	214.09	0.17	214.61	0.21
213.06	0.04	213.58	0.12	214.10	0.17	214.62	0.21
213.07	0.04	213.59	0.13	214.11	0.17	214.63	0.21
213.08	0.05	213.60	0.13	214.12	0.17	214.64	0.21
213.09	0.05	213.61	0.13	214.13	0.17	214.65	0.21
213.10	0.05	213.62	0.13	214.14	0.17	214.66	0.21
213.11	0.05	213.63	0.13	214.15	0.18	214.67	0.21
213.12	0.06	213.64	0.13	214.16	0.18	214.68	0.21
213.13	0.06	213.65	0.13	214.17	0.18	214.69	0.21
213.14	0.06	213.66	0.13	214.18	0.18	214.70	0.21
213.15	0.06	213.67	0.13	214.19	0.18	214.71	0.21
213.16	0.06	213.68	0.13	214.20	0.18	214.72	0.22
213.17	0.07	213.69	0.14	214.21	0.18	214.73	0.22
213.18	0.07	213.70	0.14	214.22	0.18	214.74	0.22
213.19	0.07	213.71	0.14	214.23	0.18	214.75	0.22
213.20	0.07	213.72	0.14	214.24	0.18	214.76	0.22
213.21	0.07	213.73	0.14	214.25	0.18	214.77	0.22
213.22	0.08	213.74	0.14	214.26	0.18	214.78	0.22
213.23	0.08	213.75	0.14	214.27	0.18	214.79	0.22
213.24	0.08	213.76	0.14	214.28	0.19	214.80	0.22
213.25	0.08	213.77	0.14	214.29	0.19	214.81	0.22
213.26	0.08	213.78	0.14	214.30	0.19	214.82	0.22
213.27	0.08	213.79	0.15	214.31	0.19	214.83	0.22
213.28	0.09	213.80	0.15	214.32	0.19	214.84	0.22
213.29	0.09	213.81	0.15	214.33	0.19	214.85	0.22
213.30	0.09	213.82	0.15	214.34	0.19	214.86	0.22
213.31	0.09	213.83	0.15	214.35	0.19	214.87	0.22
213.32	0.09	213.84	0.15	214.36	0.19	214.88	0.22
213.33	0.09	213.85	0.15	214.37	0.19	214.89	0.23
213.34	0.10	213.86	0.15	214.38	0.19	214.90	0.23
213.35	0.10	213.87	0.15	214.39	0.19	214.91	0.23
213.36	0.10	213.88	0.15	214.40	0.19	214.92	0.23
213.37	0.10	213.89	0.15	214.41	0.19	214.93	0.23
213.38	0.10	213.90	0.16	214.42	0.20	214.94	0.23
213.39	0.10	213.91	0.16	214.43	0.20	214.95	0.23
213.40	0.10	213.92	0.16	214.44	0.20	214.96	0.23
213.41	0.10	213.93	0.16	214.45	0.20	214.97	0.23
213.42	0.11	213.94	0.16	214.46	0.20	214.98	0.23
213.43	0.11	213.95	0.16	214.47	0.20	214.99	0.23
213.44	0.11	213.96	0.16	214.48	0.20	215.00	0.23
213.45	0.11	213.97	0.16	214.49	0.20	215.01	0.23
213.46	0.11	213.98	0.16	214.50	0.20	215.02	0.23
213.47	0.11	213.99	0.16	214.51	0.20	215.03	0.23
213.48	0.11	214.00	0.16	214.52	0.20	215.04	0.23
213.49	0.11	214.01	0.16	214.53	0.20	215.05	0.23
213.50	0.12	214.02	0.17	214.54	0.20	215.06	0.24
213.51	0.12	214.03	0.17	214.55	0.20	215.07	0.24

Stage-Discharge for Pond B-3: Basin #3 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
215.08	0.24	215.60	0.68	216.12	6.48	216.64	15.33
215.09	0.24	215.61	0.74	216.13	6.62	216.65	15.52
215.10	0.24	215.62	0.81	216.14	6.77	216.66	15.71
215.11	0.24	215.63	0.88	216.15	6.92	216.67	15.90
215.12	0.24	215.64	0.95	216.16	7.07	216.68	16.09
215.13	0.24	215.65	1.02	216.17	7.23	216.69	16.23
215.14	0.24	215.66	1.10	216.18	7.38	216.70	16.26
215.15	0.24	215.67	1.18	216.19	7.53	216.71	16.40
215.16	0.24	215.68	1.26	216.20	7.69	216.72	16.63
215.17	0.24	215.69	1.34	216.21	7.84	216.73	16.93
215.18	0.24	215.70	1.43	216.22	8.00	216.74	17.28
215.19	0.24	215.71	1.52	216.23	8.16	216.75	17.68
215.20	0.24	215.72	1.61	216.24	8.31		
215.21	0.24	215.73	1.70	216.25	8.47		
215.22	0.24	215.74	1.79	216.26	8.63		
215.23	0.24	215.75	1.89	216.27	8.79		
215.24	0.25	215.76	1.98	216.28	8.96		
215.25	0.25	215.77	2.08	216.29	9.12		
215.26	0.25	215.78	2.18	216.30	9.28		
215.27	0.25	215.79	2.29	216.31	9.45		
215.28	0.25	215.80	2.39	216.32	9.61		
215.29	0.25	215.81	2.50	216.33	9.78		
215.30	0.25	215.82	2.61	216.34	9.95		
215.31	0.25	215.83	2.71	216.35	10.11		
215.32	0.25	215.84	2.83	216.36	10.28		
215.33	0.25	215.85	2.94	216.37	10.45		
215.34	0.25	215.86	3.05	216.38	10.62		
215.35	0.25	215.87	3.17	216.39	10.80		
215.36	0.25	215.88	3.28	216.40	10.97		
215.37	0.25	215.89	3.40	216.41	11.14		
215.38	0.25	215.90	3.52	216.42	11.31		
215.39	0.25	215.91	3.64	216.43	11.49		
215.40	0.25	215.92	3.77	216.44	11.66		
215.41	0.25	215.93	3.89	216.45	11.84		
215.42	0.26	215.94	4.01	216.46	12.02		
215.43	0.26	215.95	4.14	216.47	12.20		
215.44	0.26	215.96	4.27	216.48	12.37		
215.45	0.26	215.97	4.40	216.49	12.55		
215.46	0.26	215.98	4.53	216.50	12.73		
215.47	0.26	215.99	4.66	216.51	12.91		
215.48	0.26	216.00	4.79	216.52	13.09		
215.49	0.26	216.01	4.93	216.53	13.28		
215.50	0.26	216.02	5.06	216.54	13.46		
215.51	0.27	216.03	5.20	216.55	13.64		
215.52	0.30	216.04	5.34	216.56	13.83		
215.53	0.33	216.05	5.47	216.57	14.01		
215.54	0.37	216.06	5.61	216.58	14.20		
215.55	0.41	216.07	5.76	216.59	14.38		
215.56	0.45	216.08	5.90	216.60	14.57		
215.57	0.50	216.09	6.04	216.61	14.76		
215.58	0.56	216.10	6.19	216.62	14.95		
215.59	0.62	216.11	6.33	216.63	15.14		

Stage-Area-Storage for Pond B-3: Basin #3

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
213.00	9,992	0	213.52	11,392	5,560
213.01	10,019	100	213.53	11,419	5,674
213.02	10,046	200	213.54	11,446	5,788
213.03	10,073	301	213.55	11,473	5,903
213.04	10,100	402	213.56	11,500	6,018
213.05	10,127	503	213.57	11,527	6,133
213.06	10,154	604	213.58	11,554	6,248
213.07	10,181	706	213.59	11,581	6,364
213.08	10,207	808	213.60	11,608	6,480
213.09	10,234	910	213.61	11,635	6,596
213.10	10,261	1,013	213.62	11,662	6,713
213.11	10,288	1,115	213.63	11,689	6,829
213.12	10,315	1,218	213.64	11,716	6,946
213.13	10,342	1,322	213.65	11,742	7,064
213.14	10,369	1,425	213.66	11,769	7,181
213.15	10,396	1,529	213.67	11,796	7,299
213.16	10,423	1,633	213.68	11,823	7,417
213.17	10,450	1,738	213.69	11,850	7,536
213.18	10,477	1,842	213.70	11,877	7,654
213.19	10,504	1,947	213.71	11,904	7,773
213.20	10,531	2,052	213.72	11,931	7,892
213.21	10,558	2,158	213.73	11,958	8,012
213.22	10,584	2,263	213.74	11,985	8,131
213.23	10,611	2,369	213.75	12,012	8,251
213.24	10,638	2,476	213.76	12,039	8,372
213.25	10,665	2,582	213.77	12,066	8,492
213.26	10,692	2,689	213.78	12,093	8,613
213.27	10,719	2,796	213.79	12,119	8,734
213.28	10,746	2,903	213.80	12,146	8,855
213.29	10,773	3,011	213.81	12,173	8,977
213.30	10,800	3,119	213.82	12,200	9,099
213.31	10,827	3,227	213.83	12,227	9,221
213.32	10,854	3,335	213.84	12,254	9,343
213.33	10,881	3,444	213.85	12,281	9,466
213.34	10,908	3,553	213.86	12,308	9,589
213.35	10,935	3,662	213.87	12,335	9,712
213.36	10,961	3,772	213.88	12,362	9,836
213.37	10,988	3,881	213.89	12,389	9,959
213.38	11,015	3,991	213.90	12,416	10,083
213.39	11,042	4,102	213.91	12,443	10,208
213.40	11,069	4,212	213.92	12,470	10,332
213.41	11,096	4,323	213.93	12,496	10,457
213.42	11,123	4,434	213.94	12,523	10,582
213.43	11,150	4,546	213.95	12,550	10,708
213.44	11,177	4,657	213.96	12,577	10,833
213.45	11,204	4,769	213.97	12,604	10,959
213.46	11,231	4,881	213.98	12,631	11,085
213.47	11,258	4,994	213.99	12,658	11,212
213.48	11,285	5,106	214.00	12,685	11,339
213.49	11,312	5,219	214.01	12,712	11,465
213.50	11,339	5,333	214.02	12,740	11,593
213.51	11,365	5,446	214.03	12,768	11,720

Stage-Area-Storage for Pond B-3: Basin #3 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
214.04	12,795	11,848	214.56	14,225	18,873
214.05	12,823	11,976	214.57	14,252	19,016
214.06	12,850	12,105	214.58	14,280	19,158
214.07	12,877	12,233	214.59	14,308	19,301
214.08	12,905	12,362	214.60	14,335	19,444
214.09	12,933	12,491	214.61	14,363	19,588
214.10	12,960	12,621	214.62	14,390	19,732
214.11	12,988	12,750	214.63	14,417	19,876
214.12	13,015	12,881	214.64	14,445	20,020
214.13	13,042	13,011	214.65	14,473	20,165
214.14	13,070	13,141	214.66	14,500	20,310
214.15	13,098	13,272	214.67	14,527	20,455
214.16	13,125	13,403	214.68	14,555	20,600
214.17	13,152	13,535	214.69	14,582	20,746
214.18	13,180	13,666	214.70	14,610	20,892
214.19	13,207	13,798	214.71	14,638	21,038
214.20	13,235	13,930	214.72	14,665	21,184
214.21	13,263	14,063	214.73	14,692	21,331
214.22	13,290	14,196	214.74	14,720	21,478
214.23	13,317	14,329	214.75	14,748	21,626
214.24	13,345	14,462	214.76	14,775	21,773
214.25	13,373	14,596	214.77	14,803	21,921
214.26	13,400	14,730	214.78	14,830	22,069
214.27	13,428	14,864	214.79	14,857	22,218
214.28	13,455	14,998	214.80	14,885	22,367
214.29	13,482	15,133	214.81	14,913	22,515
214.30	13,510	15,268	214.82	14,940	22,665
214.31	13,538	15,403	214.83	14,968	22,814
214.32	13,565	15,538	214.84	14,995	22,964
214.33	13,593	15,674	214.85	15,022	23,114
214.34	13,620	15,810	214.86	15,050	23,265
214.35	13,647	15,947	214.87	15,078	23,415
214.36	13,675	16,083	214.88	15,105	23,566
214.37	13,703	16,220	214.89	15,132	23,717
214.38	13,730	16,357	214.90	15,160	23,869
214.39	13,757	16,495	214.91	15,187	24,020
214.40	13,785	16,633	214.92	15,215	24,172
214.41	13,812	16,770	214.93	15,243	24,325
214.42	13,840	16,909	214.94	15,270	24,477
214.43	13,868	17,047	214.95	15,297	24,630
214.44	13,895	17,186	214.96	15,325	24,783
214.45	13,922	17,325	214.97	15,352	24,937
214.46	13,950	17,465	214.98	15,380	25,090
214.47	13,977	17,604	214.99	15,408	25,244
214.48	14,005	17,744	215.00	15,435	25,399
214.49	14,033	17,884	215.01	15,463	25,553
214.50	14,060	18,025	215.02	15,491	25,708
214.51	14,087	18,165	215.03	15,519	25,863
214.52	14,115	18,307	215.04	15,547	26,018
214.53	14,143	18,448	215.05	15,575	26,174
214.54	14,170	18,589	215.06	15,603	26,330
214.55	14,198	18,731	215.07	15,631	26,486

Stage-Area-Storage for Pond B-3: Basin #3 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
215.08	15,659	26,642	215.60	17,119	35,165
215.09	15,688	26,799	215.61	17,147	35,336
215.10	15,716	26,956	215.62	17,175	35,508
215.11	15,744	27,113	215.63	17,203	35,679
215.12	15,772	27,271	215.64	17,231	35,852
215.13	15,800	27,429	215.65	17,259	36,024
215.14	15,828	27,587	215.66	17,287	36,197
215.15	15,856	27,745	215.67	17,315	36,370
215.16	15,884	27,904	215.68	17,343	36,543
215.17	15,912	28,063	215.69	17,371	36,717
215.18	15,940	28,222	215.70	17,399	36,890
215.19	15,968	28,382	215.71	17,427	37,065
215.20	15,996	28,542	215.72	17,455	37,239
215.21	16,024	28,702	215.73	17,483	37,414
215.22	16,052	28,862	215.74	17,511	37,589
215.23	16,080	29,023	215.75	17,540	37,764
215.24	16,108	29,184	215.76	17,568	37,939
215.25	16,137	29,345	215.77	17,596	38,115
215.26	16,165	29,506	215.78	17,624	38,291
215.27	16,193	29,668	215.79	17,652	38,468
215.28	16,221	29,830	215.80	17,680	38,644
215.29	16,249	29,993	215.81	17,708	38,821
215.30	16,277	30,155	215.82	17,736	38,999
215.31	16,305	30,318	215.83	17,764	39,176
215.32	16,333	30,481	215.84	17,792	39,354
215.33	16,361	30,645	215.85	17,820	39,532
215.34	16,389	30,809	215.86	17,848	39,710
215.35	16,417	30,973	215.87	17,876	39,889
215.36	16,445	31,137	215.88	17,904	40,068
215.37	16,473	31,302	215.89	17,932	40,247
215.38	16,501	31,466	215.90	17,960	40,426
215.39	16,529	31,632	215.91	17,988	40,606
215.40	16,557	31,797	215.92	18,017	40,786
215.41	16,585	31,963	215.93	18,045	40,967
215.42	16,614	32,129	215.94	18,073	41,147
215.43	16,642	32,295	215.95	18,101	41,328
215.44	16,670	32,462	215.96	18,129	41,509
215.45	16,698	32,628	215.97	18,157	41,691
215.46	16,726	32,795	215.98	18,185	41,872
215.47	16,754	32,963	215.99	18,213	42,054
215.48	16,782	33,131	216.00	18,241	42,237
215.49	16,810	33,299	216.01	18,279	42,419
215.50	16,838	33,467	216.02	18,317	42,602
215.51	16,866	33,635	216.03	18,356	42,785
215.52	16,894	33,804	216.04	18,394	42,969
215.53	16,922	33,973	216.05	18,432	43,153
215.54	16,950	34,143	216.06	18,470	43,338
215.55	16,978	34,312	216.07	18,508	43,523
215.56	17,006	34,482	216.08	18,546	43,708
215.57	17,034	34,652	216.09	18,585	43,894
215.58	17,062	34,823	216.10	18,623	44,080
215.59	17,091	34,994	216.11	18,661	44,266

Stage-Area-Storage for Pond B-3: Basin #3 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
216.12	18,699	44,453	216.64	20,684	54,693
216.13	18,737	44,640	216.65	20,722	54,900
216.14	18,775	44,828	216.66	20,760	55,107
216.15	18,814	45,016	216.67	20,799	55,315
216.16	18,852	45,204	216.68	20,837	55,523
216.17	18,890	45,393	216.69	20,875	55,732
216.18	18,928	45,582	216.70	20,913	55,940
216.19	18,966	45,771	216.71	20,951	56,150
216.20	19,004	45,961	216.72	20,989	56,359
216.21	19,043	46,151	216.73	21,028	56,570
216.22	19,081	46,342	216.74	21,066	56,780
216.23	19,119	46,533	216.75	21,104	56,991
216.24	19,157	46,724			
216.25	19,195	46,916			
216.26	19,234	47,108			
216.27	19,272	47,301			
216.28	19,310	47,494			
216.29	19,348	47,687			
216.30	19,386	47,881			
216.31	19,424	48,075			
216.32	19,463	48,269			
216.33	19,501	48,464			
216.34	19,539	48,659			
216.35	19,577	48,855			
216.36	19,615	49,051			
216.37	19,653	49,247			
216.38	19,692	49,444			
216.39	19,730	49,641			
216.40	19,768	49,838			
216.41	19,806	50,036			
216.42	19,844	50,234			
216.43	19,882	50,433			
216.44	19,921	50,632			
216.45	19,959	50,831			
216.46	19,997	51,031			
216.47	20,035	51,231			
216.48	20,073	51,432			
216.49	20,111	51,633			
216.50	20,150	51,834			
216.51	20,188	52,036			
216.52	20,226	52,238			
216.53	20,264	52,440			
216.54	20,302	52,643			
216.55	20,341	52,846			
216.56	20,379	53,050			
216.57	20,417	53,254			
216.58	20,455	53,458			
216.59	20,493	53,663			
216.60	20,531	53,868			
216.61	20,570	54,074			
216.62	20,608	54,280			
216.63	20,646	54,486			

Summary for Pond B-4A: Basin #4A

Inflow Area = 2.331 ac, 36.89% Impervious, Inflow Depth = 3.34" for Current 10 yr event
 Inflow = 7.97 cfs @ 12.17 hrs, Volume= 0.648 af
 Outflow = 0.47 cfs @ 13.93 hrs, Volume= 0.174 af, Atten= 94%, Lag= 105.2 min
 Primary = 0.47 cfs @ 13.93 hrs, Volume= 0.174 af
 Routed to Pond B-5 : Basin #5

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 205.47' @ 13.93 hrs Surf.Area= 6,028 sf Storage= 20,770 cf

Plug-Flow detention time= 451.4 min calculated for 0.174 af (27% of inflow)
 Center-of-Mass det. time= 268.1 min (1,062.5 - 794.4)

Volume	Invert	Avail.Storage	Storage Description
#1	200.00'	20,963 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
200.00	1,891	0	0
201.00	2,495	2,193	2,193
202.00	3,169	2,832	5,025
203.00	3,912	3,541	8,566
204.00	4,724	4,318	12,884
205.00	5,604	5,164	18,048
205.50	6,057	2,915	20,963

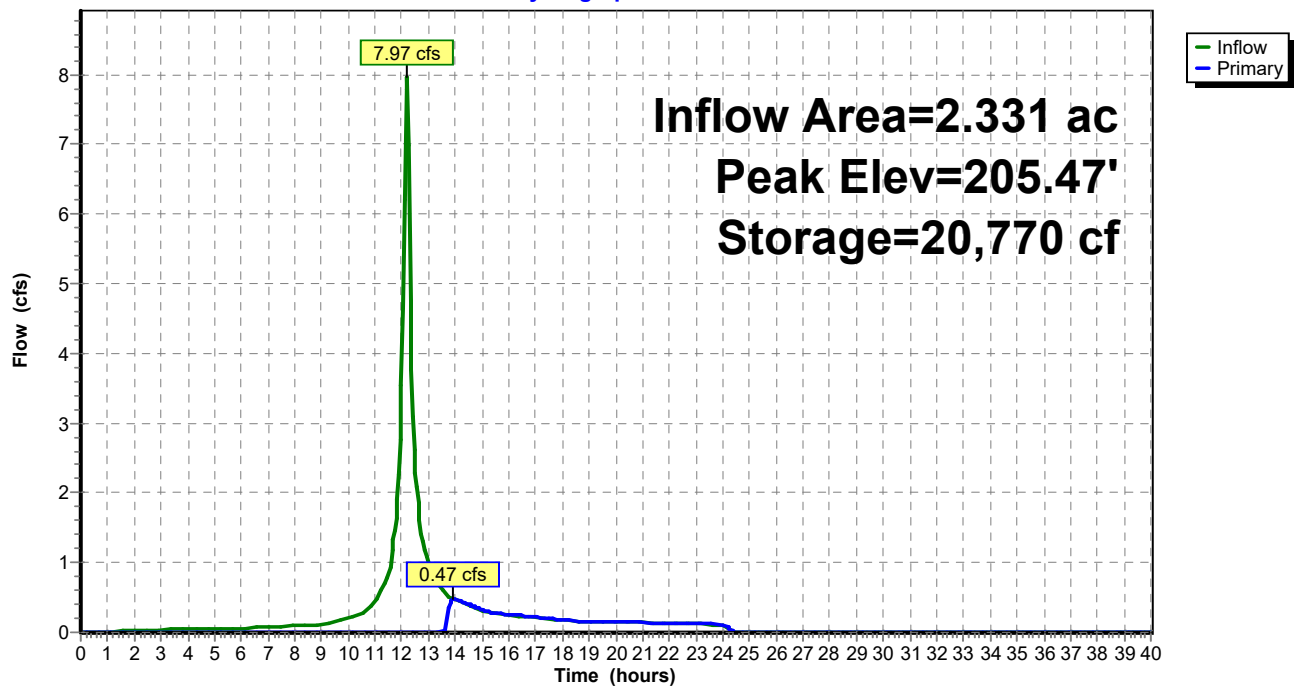
Device	Routing	Invert	Outlet Devices
#1	Primary	205.45'	50.0' long + 3.0 ' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.28 cfs @ 13.93 hrs HW=205.47' (Free Discharge)

↑ **1=Broad-Crested Rectangular Weir** (Weir Controls 0.28 cfs @ 0.31 fps)

Pond B-4A: Basin #4A

Hydrograph



Stage-Discharge for Pond B-4A: Basin #4A

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
200.00	0.00	200.52	0.00	201.04	0.00	201.56	0.00
200.01	0.00	200.53	0.00	201.05	0.00	201.57	0.00
200.02	0.00	200.54	0.00	201.06	0.00	201.58	0.00
200.03	0.00	200.55	0.00	201.07	0.00	201.59	0.00
200.04	0.00	200.56	0.00	201.08	0.00	201.60	0.00
200.05	0.00	200.57	0.00	201.09	0.00	201.61	0.00
200.06	0.00	200.58	0.00	201.10	0.00	201.62	0.00
200.07	0.00	200.59	0.00	201.11	0.00	201.63	0.00
200.08	0.00	200.60	0.00	201.12	0.00	201.64	0.00
200.09	0.00	200.61	0.00	201.13	0.00	201.65	0.00
200.10	0.00	200.62	0.00	201.14	0.00	201.66	0.00
200.11	0.00	200.63	0.00	201.15	0.00	201.67	0.00
200.12	0.00	200.64	0.00	201.16	0.00	201.68	0.00
200.13	0.00	200.65	0.00	201.17	0.00	201.69	0.00
200.14	0.00	200.66	0.00	201.18	0.00	201.70	0.00
200.15	0.00	200.67	0.00	201.19	0.00	201.71	0.00
200.16	0.00	200.68	0.00	201.20	0.00	201.72	0.00
200.17	0.00	200.69	0.00	201.21	0.00	201.73	0.00
200.18	0.00	200.70	0.00	201.22	0.00	201.74	0.00
200.19	0.00	200.71	0.00	201.23	0.00	201.75	0.00
200.20	0.00	200.72	0.00	201.24	0.00	201.76	0.00
200.21	0.00	200.73	0.00	201.25	0.00	201.77	0.00
200.22	0.00	200.74	0.00	201.26	0.00	201.78	0.00
200.23	0.00	200.75	0.00	201.27	0.00	201.79	0.00
200.24	0.00	200.76	0.00	201.28	0.00	201.80	0.00
200.25	0.00	200.77	0.00	201.29	0.00	201.81	0.00
200.26	0.00	200.78	0.00	201.30	0.00	201.82	0.00
200.27	0.00	200.79	0.00	201.31	0.00	201.83	0.00
200.28	0.00	200.80	0.00	201.32	0.00	201.84	0.00
200.29	0.00	200.81	0.00	201.33	0.00	201.85	0.00
200.30	0.00	200.82	0.00	201.34	0.00	201.86	0.00
200.31	0.00	200.83	0.00	201.35	0.00	201.87	0.00
200.32	0.00	200.84	0.00	201.36	0.00	201.88	0.00
200.33	0.00	200.85	0.00	201.37	0.00	201.89	0.00
200.34	0.00	200.86	0.00	201.38	0.00	201.90	0.00
200.35	0.00	200.87	0.00	201.39	0.00	201.91	0.00
200.36	0.00	200.88	0.00	201.40	0.00	201.92	0.00
200.37	0.00	200.89	0.00	201.41	0.00	201.93	0.00
200.38	0.00	200.90	0.00	201.42	0.00	201.94	0.00
200.39	0.00	200.91	0.00	201.43	0.00	201.95	0.00
200.40	0.00	200.92	0.00	201.44	0.00	201.96	0.00
200.41	0.00	200.93	0.00	201.45	0.00	201.97	0.00
200.42	0.00	200.94	0.00	201.46	0.00	201.98	0.00
200.43	0.00	200.95	0.00	201.47	0.00	201.99	0.00
200.44	0.00	200.96	0.00	201.48	0.00	202.00	0.00
200.45	0.00	200.97	0.00	201.49	0.00	202.01	0.00
200.46	0.00	200.98	0.00	201.50	0.00	202.02	0.00
200.47	0.00	200.99	0.00	201.51	0.00	202.03	0.00
200.48	0.00	201.00	0.00	201.52	0.00	202.04	0.00
200.49	0.00	201.01	0.00	201.53	0.00	202.05	0.00
200.50	0.00	201.02	0.00	201.54	0.00	202.06	0.00
200.51	0.00	201.03	0.00	201.55	0.00	202.07	0.00

Stage-Discharge for Pond B-4A: Basin #4A (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
202.08	0.00	202.60	0.00	203.12	0.00	203.64	0.00
202.09	0.00	202.61	0.00	203.13	0.00	203.65	0.00
202.10	0.00	202.62	0.00	203.14	0.00	203.66	0.00
202.11	0.00	202.63	0.00	203.15	0.00	203.67	0.00
202.12	0.00	202.64	0.00	203.16	0.00	203.68	0.00
202.13	0.00	202.65	0.00	203.17	0.00	203.69	0.00
202.14	0.00	202.66	0.00	203.18	0.00	203.70	0.00
202.15	0.00	202.67	0.00	203.19	0.00	203.71	0.00
202.16	0.00	202.68	0.00	203.20	0.00	203.72	0.00
202.17	0.00	202.69	0.00	203.21	0.00	203.73	0.00
202.18	0.00	202.70	0.00	203.22	0.00	203.74	0.00
202.19	0.00	202.71	0.00	203.23	0.00	203.75	0.00
202.20	0.00	202.72	0.00	203.24	0.00	203.76	0.00
202.21	0.00	202.73	0.00	203.25	0.00	203.77	0.00
202.22	0.00	202.74	0.00	203.26	0.00	203.78	0.00
202.23	0.00	202.75	0.00	203.27	0.00	203.79	0.00
202.24	0.00	202.76	0.00	203.28	0.00	203.80	0.00
202.25	0.00	202.77	0.00	203.29	0.00	203.81	0.00
202.26	0.00	202.78	0.00	203.30	0.00	203.82	0.00
202.27	0.00	202.79	0.00	203.31	0.00	203.83	0.00
202.28	0.00	202.80	0.00	203.32	0.00	203.84	0.00
202.29	0.00	202.81	0.00	203.33	0.00	203.85	0.00
202.30	0.00	202.82	0.00	203.34	0.00	203.86	0.00
202.31	0.00	202.83	0.00	203.35	0.00	203.87	0.00
202.32	0.00	202.84	0.00	203.36	0.00	203.88	0.00
202.33	0.00	202.85	0.00	203.37	0.00	203.89	0.00
202.34	0.00	202.86	0.00	203.38	0.00	203.90	0.00
202.35	0.00	202.87	0.00	203.39	0.00	203.91	0.00
202.36	0.00	202.88	0.00	203.40	0.00	203.92	0.00
202.37	0.00	202.89	0.00	203.41	0.00	203.93	0.00
202.38	0.00	202.90	0.00	203.42	0.00	203.94	0.00
202.39	0.00	202.91	0.00	203.43	0.00	203.95	0.00
202.40	0.00	202.92	0.00	203.44	0.00	203.96	0.00
202.41	0.00	202.93	0.00	203.45	0.00	203.97	0.00
202.42	0.00	202.94	0.00	203.46	0.00	203.98	0.00
202.43	0.00	202.95	0.00	203.47	0.00	203.99	0.00
202.44	0.00	202.96	0.00	203.48	0.00	204.00	0.00
202.45	0.00	202.97	0.00	203.49	0.00	204.01	0.00
202.46	0.00	202.98	0.00	203.50	0.00	204.02	0.00
202.47	0.00	202.99	0.00	203.51	0.00	204.03	0.00
202.48	0.00	203.00	0.00	203.52	0.00	204.04	0.00
202.49	0.00	203.01	0.00	203.53	0.00	204.05	0.00
202.50	0.00	203.02	0.00	203.54	0.00	204.06	0.00
202.51	0.00	203.03	0.00	203.55	0.00	204.07	0.00
202.52	0.00	203.04	0.00	203.56	0.00	204.08	0.00
202.53	0.00	203.05	0.00	203.57	0.00	204.09	0.00
202.54	0.00	203.06	0.00	203.58	0.00	204.10	0.00
202.55	0.00	203.07	0.00	203.59	0.00	204.11	0.00
202.56	0.00	203.08	0.00	203.60	0.00	204.12	0.00
202.57	0.00	203.09	0.00	203.61	0.00	204.13	0.00
202.58	0.00	203.10	0.00	203.62	0.00	204.14	0.00
202.59	0.00	203.11	0.00	203.63	0.00	204.15	0.00

Stage-Discharge for Pond B-4A: Basin #4A (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
204.16	0.00	204.68	0.00	205.20	0.00
204.17	0.00	204.69	0.00	205.21	0.00
204.18	0.00	204.70	0.00	205.22	0.00
204.19	0.00	204.71	0.00	205.23	0.00
204.20	0.00	204.72	0.00	205.24	0.00
204.21	0.00	204.73	0.00	205.25	0.00
204.22	0.00	204.74	0.00	205.26	0.00
204.23	0.00	204.75	0.00	205.27	0.00
204.24	0.00	204.76	0.00	205.28	0.00
204.25	0.00	204.77	0.00	205.29	0.00
204.26	0.00	204.78	0.00	205.30	0.00
204.27	0.00	204.79	0.00	205.31	0.00
204.28	0.00	204.80	0.00	205.32	0.00
204.29	0.00	204.81	0.00	205.33	0.00
204.30	0.00	204.82	0.00	205.34	0.00
204.31	0.00	204.83	0.00	205.35	0.00
204.32	0.00	204.84	0.00	205.36	0.00
204.33	0.00	204.85	0.00	205.37	0.00
204.34	0.00	204.86	0.00	205.38	0.00
204.35	0.00	204.87	0.00	205.39	0.00
204.36	0.00	204.88	0.00	205.40	0.00
204.37	0.00	204.89	0.00	205.41	0.00
204.38	0.00	204.90	0.00	205.42	0.00
204.39	0.00	204.91	0.00	205.43	0.00
204.40	0.00	204.92	0.00	205.44	0.00
204.41	0.00	204.93	0.00	205.45	0.00
204.42	0.00	204.94	0.00	205.46	0.12
204.43	0.00	204.95	0.00	205.47	0.33
204.44	0.00	204.96	0.00	205.48	0.61
204.45	0.00	204.97	0.00	205.49	0.94
204.46	0.00	204.98	0.00	205.50	1.31
204.47	0.00	204.99	0.00		
204.48	0.00	205.00	0.00		
204.49	0.00	205.01	0.00		
204.50	0.00	205.02	0.00		
204.51	0.00	205.03	0.00		
204.52	0.00	205.04	0.00		
204.53	0.00	205.05	0.00		
204.54	0.00	205.06	0.00		
204.55	0.00	205.07	0.00		
204.56	0.00	205.08	0.00		
204.57	0.00	205.09	0.00		
204.58	0.00	205.10	0.00		
204.59	0.00	205.11	0.00		
204.60	0.00	205.12	0.00		
204.61	0.00	205.13	0.00		
204.62	0.00	205.14	0.00		
204.63	0.00	205.15	0.00		
204.64	0.00	205.16	0.00		
204.65	0.00	205.17	0.00		
204.66	0.00	205.18	0.00		
204.67	0.00	205.19	0.00		

Stage-Area-Storage for Pond B-4A: Basin #4A

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
200.00	1,891	0	200.52	2,205	1,065
200.01	1,897	19	200.53	2,211	1,087
200.02	1,903	38	200.54	2,217	1,109
200.03	1,909	57	200.55	2,223	1,131
200.04	1,915	76	200.56	2,229	1,154
200.05	1,921	95	200.57	2,235	1,176
200.06	1,927	115	200.58	2,241	1,198
200.07	1,933	134	200.59	2,247	1,221
200.08	1,939	153	200.60	2,253	1,243
200.09	1,945	173	200.61	2,259	1,266
200.10	1,951	192	200.62	2,265	1,289
200.11	1,957	212	200.63	2,272	1,311
200.12	1,963	231	200.64	2,278	1,334
200.13	1,970	251	200.65	2,284	1,357
200.14	1,976	271	200.66	2,290	1,380
200.15	1,982	290	200.67	2,296	1,403
200.16	1,988	310	200.68	2,302	1,426
200.17	1,994	330	200.69	2,308	1,449
200.18	2,000	350	200.70	2,314	1,472
200.19	2,006	370	200.71	2,320	1,495
200.20	2,012	390	200.72	2,326	1,518
200.21	2,018	410	200.73	2,332	1,541
200.22	2,024	431	200.74	2,338	1,565
200.23	2,030	451	200.75	2,344	1,588
200.24	2,036	471	200.76	2,350	1,612
200.25	2,042	492	200.77	2,356	1,635
200.26	2,048	512	200.78	2,362	1,659
200.27	2,054	533	200.79	2,368	1,682
200.28	2,060	553	200.80	2,374	1,706
200.29	2,066	574	200.81	2,380	1,730
200.30	2,072	594	200.82	2,386	1,754
200.31	2,078	615	200.83	2,392	1,778
200.32	2,084	636	200.84	2,398	1,802
200.33	2,090	657	200.85	2,404	1,826
200.34	2,096	678	200.86	2,410	1,850
200.35	2,102	699	200.87	2,416	1,874
200.36	2,108	720	200.88	2,423	1,898
200.37	2,114	741	200.89	2,429	1,922
200.38	2,121	762	200.90	2,435	1,947
200.39	2,127	783	200.91	2,441	1,971
200.40	2,133	805	200.92	2,447	1,995
200.41	2,139	826	200.93	2,453	2,020
200.42	2,145	847	200.94	2,459	2,044
200.43	2,151	869	200.95	2,465	2,069
200.44	2,157	891	200.96	2,471	2,094
200.45	2,163	912	200.97	2,477	2,118
200.46	2,169	934	200.98	2,483	2,143
200.47	2,175	955	200.99	2,489	2,168
200.48	2,181	977	201.00	2,495	2,193
200.49	2,187	999	201.01	2,502	2,218
200.50	2,193	1,021	201.02	2,508	2,243
200.51	2,199	1,043	201.03	2,515	2,268

Stage-Area-Storage for Pond B-4A: Basin #4A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
201.04	2,522	2,293	201.56	2,872	3,696
201.05	2,529	2,319	201.57	2,879	3,725
201.06	2,535	2,344	201.58	2,886	3,753
201.07	2,542	2,369	201.59	2,893	3,782
201.08	2,549	2,395	201.60	2,899	3,811
201.09	2,556	2,420	201.61	2,906	3,840
201.10	2,562	2,446	201.62	2,913	3,869
201.11	2,569	2,472	201.63	2,920	3,899
201.12	2,576	2,497	201.64	2,926	3,928
201.13	2,583	2,523	201.65	2,933	3,957
201.14	2,589	2,549	201.66	2,940	3,986
201.15	2,596	2,575	201.67	2,947	4,016
201.16	2,603	2,601	201.68	2,953	4,045
201.17	2,610	2,627	201.69	2,960	4,075
201.18	2,616	2,653	201.70	2,967	4,105
201.19	2,623	2,679	201.71	2,974	4,134
201.20	2,630	2,705	201.72	2,980	4,164
201.21	2,637	2,732	201.73	2,987	4,194
201.22	2,643	2,758	201.74	2,994	4,224
201.23	2,650	2,785	201.75	3,001	4,254
201.24	2,657	2,811	201.76	3,007	4,284
201.25	2,664	2,838	201.77	3,014	4,314
201.26	2,670	2,864	201.78	3,021	4,344
201.27	2,677	2,891	201.79	3,027	4,374
201.28	2,684	2,918	201.80	3,034	4,405
201.29	2,690	2,945	201.81	3,041	4,435
201.30	2,697	2,972	201.82	3,048	4,465
201.31	2,704	2,999	201.83	3,054	4,496
201.32	2,711	3,026	201.84	3,061	4,527
201.33	2,717	3,053	201.85	3,068	4,557
201.34	2,724	3,080	201.86	3,075	4,588
201.35	2,731	3,108	201.87	3,081	4,619
201.36	2,738	3,135	201.88	3,088	4,650
201.37	2,744	3,162	201.89	3,095	4,680
201.38	2,751	3,190	201.90	3,102	4,711
201.39	2,758	3,217	201.91	3,108	4,743
201.40	2,765	3,245	201.92	3,115	4,774
201.41	2,771	3,273	201.93	3,122	4,805
201.42	2,778	3,300	201.94	3,129	4,836
201.43	2,785	3,328	201.95	3,135	4,867
201.44	2,792	3,356	201.96	3,142	4,899
201.45	2,798	3,384	201.97	3,149	4,930
201.46	2,805	3,412	201.98	3,156	4,962
201.47	2,812	3,440	201.99	3,162	4,993
201.48	2,819	3,468	202.00	3,169	5,025
201.49	2,825	3,496	202.01	3,176	5,057
201.50	2,832	3,525	202.02	3,184	5,089
201.51	2,839	3,553	202.03	3,191	5,120
201.52	2,845	3,582	202.04	3,199	5,152
201.53	2,852	3,610	202.05	3,206	5,184
201.54	2,859	3,639	202.06	3,214	5,216
201.55	2,866	3,667	202.07	3,221	5,249

Stage-Area-Storage for Pond B-4A: Basin #4A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
202.08	3,228	5,281	202.60	3,615	7,060
202.09	3,236	5,313	202.61	3,622	7,096
202.10	3,243	5,346	202.62	3,630	7,133
202.11	3,251	5,378	202.63	3,637	7,169
202.12	3,258	5,411	202.64	3,645	7,205
202.13	3,266	5,443	202.65	3,652	7,242
202.14	3,273	5,476	202.66	3,659	7,278
202.15	3,280	5,509	202.67	3,667	7,315
202.16	3,288	5,542	202.68	3,674	7,352
202.17	3,295	5,574	202.69	3,682	7,388
202.18	3,303	5,607	202.70	3,689	7,425
202.19	3,310	5,641	202.71	3,697	7,462
202.20	3,318	5,674	202.72	3,704	7,499
202.21	3,325	5,707	202.73	3,711	7,536
202.22	3,332	5,740	202.74	3,719	7,573
202.23	3,340	5,774	202.75	3,726	7,611
202.24	3,347	5,807	202.76	3,734	7,648
202.25	3,355	5,840	202.77	3,741	7,685
202.26	3,362	5,874	202.78	3,749	7,723
202.27	3,370	5,908	202.79	3,756	7,760
202.28	3,377	5,941	202.80	3,763	7,798
202.29	3,384	5,975	202.81	3,771	7,836
202.30	3,392	6,009	202.82	3,778	7,873
202.31	3,399	6,043	202.83	3,786	7,911
202.32	3,407	6,077	202.84	3,793	7,949
202.33	3,414	6,111	202.85	3,801	7,987
202.34	3,422	6,145	202.86	3,808	8,025
202.35	3,429	6,180	202.87	3,815	8,063
202.36	3,436	6,214	202.88	3,823	8,101
202.37	3,444	6,248	202.89	3,830	8,140
202.38	3,451	6,283	202.90	3,838	8,178
202.39	3,459	6,317	202.91	3,845	8,216
202.40	3,466	6,352	202.92	3,853	8,255
202.41	3,474	6,387	202.93	3,860	8,293
202.42	3,481	6,422	202.94	3,867	8,332
202.43	3,488	6,456	202.95	3,875	8,371
202.44	3,496	6,491	202.96	3,882	8,410
202.45	3,503	6,526	202.97	3,890	8,448
202.46	3,511	6,561	202.98	3,897	8,487
202.47	3,518	6,596	202.99	3,905	8,526
202.48	3,526	6,632	203.00	3,912	8,566
202.49	3,533	6,667	203.01	3,920	8,605
202.50	3,541	6,702	203.02	3,928	8,644
202.51	3,548	6,738	203.03	3,936	8,683
202.52	3,555	6,773	203.04	3,944	8,723
202.53	3,563	6,809	203.05	3,953	8,762
202.54	3,570	6,845	203.06	3,961	8,802
202.55	3,578	6,880	203.07	3,969	8,841
202.56	3,585	6,916	203.08	3,977	8,881
202.57	3,593	6,952	203.09	3,985	8,921
202.58	3,600	6,988	203.10	3,993	8,961
202.59	3,607	7,024	203.11	4,001	9,001

Stage-Area-Storage for Pond B-4A: Basin #4A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
203.12	4,009	9,041	203.64	4,432	11,235
203.13	4,018	9,081	203.65	4,440	11,280
203.14	4,026	9,121	203.66	4,448	11,324
203.15	4,034	9,161	203.67	4,456	11,369
203.16	4,042	9,202	203.68	4,464	11,413
203.17	4,050	9,242	203.69	4,472	11,458
203.18	4,058	9,283	203.70	4,480	11,503
203.19	4,066	9,323	203.71	4,489	11,548
203.20	4,074	9,364	203.72	4,497	11,593
203.21	4,083	9,405	203.73	4,505	11,638
203.22	4,091	9,446	203.74	4,513	11,683
203.23	4,099	9,487	203.75	4,521	11,728
203.24	4,107	9,528	203.76	4,529	11,773
203.25	4,115	9,569	203.77	4,537	11,818
203.26	4,123	9,610	203.78	4,545	11,864
203.27	4,131	9,651	203.79	4,553	11,909
203.28	4,139	9,693	203.80	4,562	11,955
203.29	4,147	9,734	203.81	4,570	12,001
203.30	4,156	9,776	203.82	4,578	12,046
203.31	4,164	9,817	203.83	4,586	12,092
203.32	4,172	9,859	203.84	4,594	12,138
203.33	4,180	9,901	203.85	4,602	12,184
203.34	4,188	9,943	203.86	4,610	12,230
203.35	4,196	9,984	203.87	4,618	12,276
203.36	4,204	10,026	203.88	4,627	12,322
203.37	4,212	10,069	203.89	4,635	12,369
203.38	4,221	10,111	203.90	4,643	12,415
203.39	4,229	10,153	203.91	4,651	12,462
203.40	4,237	10,195	203.92	4,659	12,508
203.41	4,245	10,238	203.93	4,667	12,555
203.42	4,253	10,280	203.94	4,675	12,602
203.43	4,261	10,323	203.95	4,683	12,648
203.44	4,269	10,365	203.96	4,692	12,695
203.45	4,277	10,408	203.97	4,700	12,742
203.46	4,286	10,451	203.98	4,708	12,789
203.47	4,294	10,494	203.99	4,716	12,836
203.48	4,302	10,537	204.00	4,724	12,884
203.49	4,310	10,580	204.01	4,733	12,931
203.50	4,318	10,623	204.02	4,742	12,978
203.51	4,326	10,666	204.03	4,750	13,026
203.52	4,334	10,710	204.04	4,759	13,073
203.53	4,342	10,753	204.05	4,768	13,121
203.54	4,350	10,796	204.06	4,777	13,169
203.55	4,359	10,840	204.07	4,786	13,216
203.56	4,367	10,884	204.08	4,794	13,264
203.57	4,375	10,927	204.09	4,803	13,312
203.58	4,383	10,971	204.10	4,812	13,360
203.59	4,391	11,015	204.11	4,821	13,408
203.60	4,399	11,059	204.12	4,830	13,457
203.61	4,407	11,103	204.13	4,838	13,505
203.62	4,415	11,147	204.14	4,847	13,553
203.63	4,424	11,191	204.15	4,856	13,602

Stage-Area-Storage for Pond B-4A: Basin #4A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
204.16	4,865	13,651	204.68	5,322	16,299
204.17	4,874	13,699	204.69	5,331	16,353
204.18	4,882	13,748	204.70	5,340	16,406
204.19	4,891	13,797	204.71	5,349	16,459
204.20	4,900	13,846	204.72	5,358	16,513
204.21	4,909	13,895	204.73	5,366	16,566
204.22	4,918	13,944	204.74	5,375	16,620
204.23	4,926	13,993	204.75	5,384	16,674
204.24	4,935	14,043	204.76	5,393	16,728
204.25	4,944	14,092	204.77	5,402	16,782
204.26	4,953	14,141	204.78	5,410	16,836
204.27	4,962	14,191	204.79	5,419	16,890
204.28	4,970	14,241	204.80	5,428	16,944
204.29	4,979	14,290	204.81	5,437	16,999
204.30	4,988	14,340	204.82	5,446	17,053
204.31	4,997	14,390	204.83	5,454	17,108
204.32	5,006	14,440	204.84	5,463	17,162
204.33	5,014	14,490	204.85	5,472	17,217
204.34	5,023	14,541	204.86	5,481	17,272
204.35	5,032	14,591	204.87	5,490	17,326
204.36	5,041	14,641	204.88	5,498	17,381
204.37	5,050	14,692	204.89	5,507	17,436
204.38	5,058	14,742	204.90	5,516	17,492
204.39	5,067	14,793	204.91	5,525	17,547
204.40	5,076	14,844	204.92	5,534	17,602
204.41	5,085	14,894	204.93	5,542	17,657
204.42	5,094	14,945	204.94	5,551	17,713
204.43	5,102	14,996	204.95	5,560	17,768
204.44	5,111	15,047	204.96	5,569	17,824
204.45	5,120	15,098	204.97	5,578	17,880
204.46	5,129	15,150	204.98	5,586	17,936
204.47	5,138	15,201	204.99	5,595	17,992
204.48	5,146	15,252	205.00	5,604	18,048
204.49	5,155	15,304	205.01	5,613	18,104
204.50	5,164	15,356	205.02	5,622	18,160
204.51	5,173	15,407	205.03	5,631	18,216
204.52	5,182	15,459	205.04	5,640	18,272
204.53	5,190	15,511	205.05	5,649	18,329
204.54	5,199	15,563	205.06	5,658	18,385
204.55	5,208	15,615	205.07	5,667	18,442
204.56	5,217	15,667	205.08	5,676	18,499
204.57	5,226	15,719	205.09	5,686	18,556
204.58	5,234	15,771	205.10	5,695	18,612
204.59	5,243	15,824	205.11	5,704	18,669
204.60	5,252	15,876	205.12	5,713	18,727
204.61	5,261	15,929	205.13	5,722	18,784
204.62	5,270	15,982	205.14	5,731	18,841
204.63	5,278	16,034	205.15	5,740	18,898
204.64	5,287	16,087	205.16	5,749	18,956
204.65	5,296	16,140	205.17	5,758	19,013
204.66	5,305	16,193	205.18	5,767	19,071
204.67	5,314	16,246	205.19	5,776	19,129

Stage-Area-Storage for Pond B-4A: Basin #4A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
205.20	5,785	19,186
205.21	5,794	19,244
205.22	5,803	19,302
205.23	5,812	19,360
205.24	5,821	19,419
205.25	5,831	19,477
205.26	5,840	19,535
205.27	5,849	19,594
205.28	5,858	19,652
205.29	5,867	19,711
205.30	5,876	19,769
205.31	5,885	19,828
205.32	5,894	19,887
205.33	5,903	19,946
205.34	5,912	20,005
205.35	5,921	20,064
205.36	5,930	20,124
205.37	5,939	20,183
205.38	5,948	20,242
205.39	5,957	20,302
205.40	5,966	20,362
205.41	5,975	20,421
205.42	5,985	20,481
205.43	5,994	20,541
205.44	6,003	20,601
205.45	6,012	20,661
205.46	6,021	20,721
205.47	6,030	20,781
205.48	6,039	20,842
205.49	6,048	20,902
205.50	6,057	20,963

Summary for Pond B-4B: Basin #4B

Inflow Area = 2.331 ac, 36.89% Impervious, Inflow Depth = 3.34" for Current 10 yr event
 Inflow = 7.97 cfs @ 12.17 hrs, Volume= 0.648 af
 Outflow = 0.28 cfs @ 15.32 hrs, Volume= 0.128 af, Atten= 96%, Lag= 188.6 min
 Primary = 0.28 cfs @ 15.32 hrs, Volume= 0.128 af
 Routed to Pond B-5 : Basin #5

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 205.46' @ 15.32 hrs Surf.Area= 6,892 sf Storage= 22,724 cf

Plug-Flow detention time= 561.3 min calculated for 0.128 af (20% of inflow)
 Center-of-Mass det. time= 340.2 min (1,134.7 - 794.4)

Volume	Invert	Avail.Storage	Storage Description
#1	200.00'	22,995 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
200.00	1,852	0	0
201.00	2,571	2,212	2,212
202.00	3,384	2,978	5,189
203.00	4,292	3,838	9,027
204.00	5,294	4,793	13,820
205.00	6,393	5,844	19,664
205.50	6,934	3,332	22,995

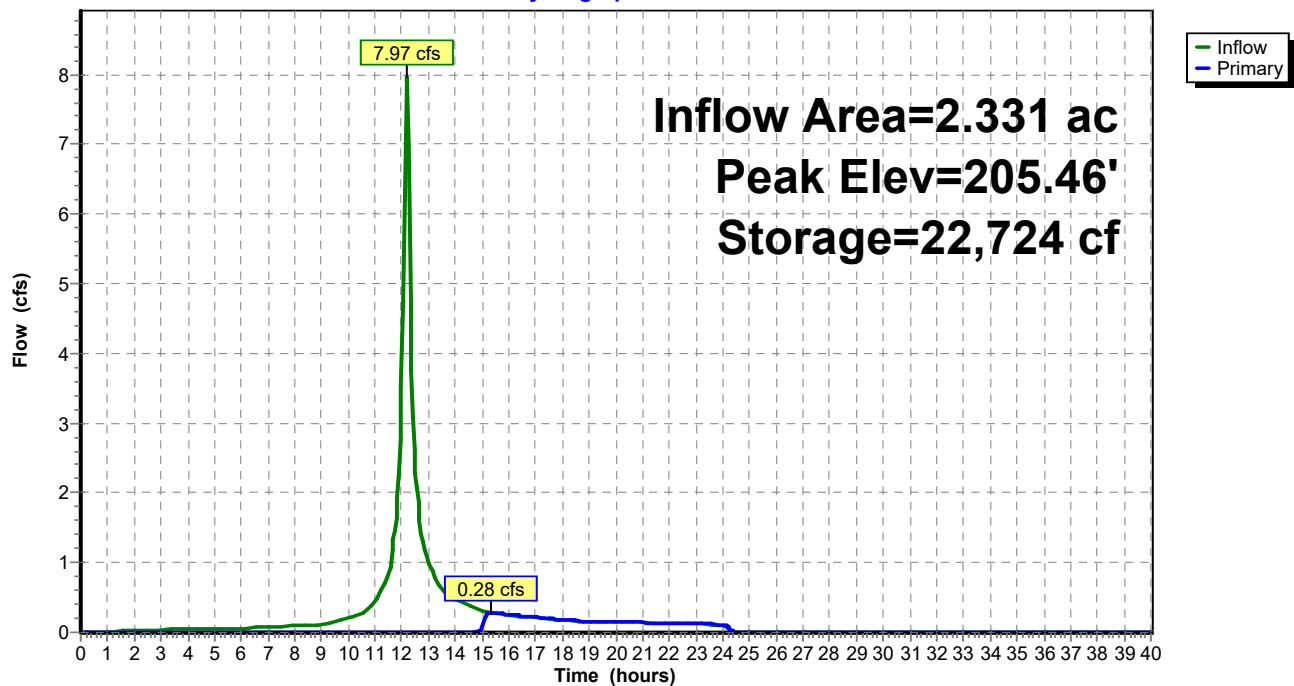
Device	Routing	Invert	Outlet Devices
#1	Primary	205.45'	50.0' long + 3.0 ' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.13 cfs @ 15.32 hrs HW=205.46' (Free Discharge)

↑1=**Broad-Crested Rectangular Weir**(Weir Controls 0.13 cfs @ 0.24 fps)

Pond B-4B: Basin #4B

Hydrograph



Stage-Discharge for Pond B-4B: Basin #4B

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
200.00	0.00	200.52	0.00	201.04	0.00	201.56	0.00
200.01	0.00	200.53	0.00	201.05	0.00	201.57	0.00
200.02	0.00	200.54	0.00	201.06	0.00	201.58	0.00
200.03	0.00	200.55	0.00	201.07	0.00	201.59	0.00
200.04	0.00	200.56	0.00	201.08	0.00	201.60	0.00
200.05	0.00	200.57	0.00	201.09	0.00	201.61	0.00
200.06	0.00	200.58	0.00	201.10	0.00	201.62	0.00
200.07	0.00	200.59	0.00	201.11	0.00	201.63	0.00
200.08	0.00	200.60	0.00	201.12	0.00	201.64	0.00
200.09	0.00	200.61	0.00	201.13	0.00	201.65	0.00
200.10	0.00	200.62	0.00	201.14	0.00	201.66	0.00
200.11	0.00	200.63	0.00	201.15	0.00	201.67	0.00
200.12	0.00	200.64	0.00	201.16	0.00	201.68	0.00
200.13	0.00	200.65	0.00	201.17	0.00	201.69	0.00
200.14	0.00	200.66	0.00	201.18	0.00	201.70	0.00
200.15	0.00	200.67	0.00	201.19	0.00	201.71	0.00
200.16	0.00	200.68	0.00	201.20	0.00	201.72	0.00
200.17	0.00	200.69	0.00	201.21	0.00	201.73	0.00
200.18	0.00	200.70	0.00	201.22	0.00	201.74	0.00
200.19	0.00	200.71	0.00	201.23	0.00	201.75	0.00
200.20	0.00	200.72	0.00	201.24	0.00	201.76	0.00
200.21	0.00	200.73	0.00	201.25	0.00	201.77	0.00
200.22	0.00	200.74	0.00	201.26	0.00	201.78	0.00
200.23	0.00	200.75	0.00	201.27	0.00	201.79	0.00
200.24	0.00	200.76	0.00	201.28	0.00	201.80	0.00
200.25	0.00	200.77	0.00	201.29	0.00	201.81	0.00
200.26	0.00	200.78	0.00	201.30	0.00	201.82	0.00
200.27	0.00	200.79	0.00	201.31	0.00	201.83	0.00
200.28	0.00	200.80	0.00	201.32	0.00	201.84	0.00
200.29	0.00	200.81	0.00	201.33	0.00	201.85	0.00
200.30	0.00	200.82	0.00	201.34	0.00	201.86	0.00
200.31	0.00	200.83	0.00	201.35	0.00	201.87	0.00
200.32	0.00	200.84	0.00	201.36	0.00	201.88	0.00
200.33	0.00	200.85	0.00	201.37	0.00	201.89	0.00
200.34	0.00	200.86	0.00	201.38	0.00	201.90	0.00
200.35	0.00	200.87	0.00	201.39	0.00	201.91	0.00
200.36	0.00	200.88	0.00	201.40	0.00	201.92	0.00
200.37	0.00	200.89	0.00	201.41	0.00	201.93	0.00
200.38	0.00	200.90	0.00	201.42	0.00	201.94	0.00
200.39	0.00	200.91	0.00	201.43	0.00	201.95	0.00
200.40	0.00	200.92	0.00	201.44	0.00	201.96	0.00
200.41	0.00	200.93	0.00	201.45	0.00	201.97	0.00
200.42	0.00	200.94	0.00	201.46	0.00	201.98	0.00
200.43	0.00	200.95	0.00	201.47	0.00	201.99	0.00
200.44	0.00	200.96	0.00	201.48	0.00	202.00	0.00
200.45	0.00	200.97	0.00	201.49	0.00	202.01	0.00
200.46	0.00	200.98	0.00	201.50	0.00	202.02	0.00
200.47	0.00	200.99	0.00	201.51	0.00	202.03	0.00
200.48	0.00	201.00	0.00	201.52	0.00	202.04	0.00
200.49	0.00	201.01	0.00	201.53	0.00	202.05	0.00
200.50	0.00	201.02	0.00	201.54	0.00	202.06	0.00
200.51	0.00	201.03	0.00	201.55	0.00	202.07	0.00

Stage-Discharge for Pond B-4B: Basin #4B (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
202.08	0.00	202.60	0.00	203.12	0.00	203.64	0.00
202.09	0.00	202.61	0.00	203.13	0.00	203.65	0.00
202.10	0.00	202.62	0.00	203.14	0.00	203.66	0.00
202.11	0.00	202.63	0.00	203.15	0.00	203.67	0.00
202.12	0.00	202.64	0.00	203.16	0.00	203.68	0.00
202.13	0.00	202.65	0.00	203.17	0.00	203.69	0.00
202.14	0.00	202.66	0.00	203.18	0.00	203.70	0.00
202.15	0.00	202.67	0.00	203.19	0.00	203.71	0.00
202.16	0.00	202.68	0.00	203.20	0.00	203.72	0.00
202.17	0.00	202.69	0.00	203.21	0.00	203.73	0.00
202.18	0.00	202.70	0.00	203.22	0.00	203.74	0.00
202.19	0.00	202.71	0.00	203.23	0.00	203.75	0.00
202.20	0.00	202.72	0.00	203.24	0.00	203.76	0.00
202.21	0.00	202.73	0.00	203.25	0.00	203.77	0.00
202.22	0.00	202.74	0.00	203.26	0.00	203.78	0.00
202.23	0.00	202.75	0.00	203.27	0.00	203.79	0.00
202.24	0.00	202.76	0.00	203.28	0.00	203.80	0.00
202.25	0.00	202.77	0.00	203.29	0.00	203.81	0.00
202.26	0.00	202.78	0.00	203.30	0.00	203.82	0.00
202.27	0.00	202.79	0.00	203.31	0.00	203.83	0.00
202.28	0.00	202.80	0.00	203.32	0.00	203.84	0.00
202.29	0.00	202.81	0.00	203.33	0.00	203.85	0.00
202.30	0.00	202.82	0.00	203.34	0.00	203.86	0.00
202.31	0.00	202.83	0.00	203.35	0.00	203.87	0.00
202.32	0.00	202.84	0.00	203.36	0.00	203.88	0.00
202.33	0.00	202.85	0.00	203.37	0.00	203.89	0.00
202.34	0.00	202.86	0.00	203.38	0.00	203.90	0.00
202.35	0.00	202.87	0.00	203.39	0.00	203.91	0.00
202.36	0.00	202.88	0.00	203.40	0.00	203.92	0.00
202.37	0.00	202.89	0.00	203.41	0.00	203.93	0.00
202.38	0.00	202.90	0.00	203.42	0.00	203.94	0.00
202.39	0.00	202.91	0.00	203.43	0.00	203.95	0.00
202.40	0.00	202.92	0.00	203.44	0.00	203.96	0.00
202.41	0.00	202.93	0.00	203.45	0.00	203.97	0.00
202.42	0.00	202.94	0.00	203.46	0.00	203.98	0.00
202.43	0.00	202.95	0.00	203.47	0.00	203.99	0.00
202.44	0.00	202.96	0.00	203.48	0.00	204.00	0.00
202.45	0.00	202.97	0.00	203.49	0.00	204.01	0.00
202.46	0.00	202.98	0.00	203.50	0.00	204.02	0.00
202.47	0.00	202.99	0.00	203.51	0.00	204.03	0.00
202.48	0.00	203.00	0.00	203.52	0.00	204.04	0.00
202.49	0.00	203.01	0.00	203.53	0.00	204.05	0.00
202.50	0.00	203.02	0.00	203.54	0.00	204.06	0.00
202.51	0.00	203.03	0.00	203.55	0.00	204.07	0.00
202.52	0.00	203.04	0.00	203.56	0.00	204.08	0.00
202.53	0.00	203.05	0.00	203.57	0.00	204.09	0.00
202.54	0.00	203.06	0.00	203.58	0.00	204.10	0.00
202.55	0.00	203.07	0.00	203.59	0.00	204.11	0.00
202.56	0.00	203.08	0.00	203.60	0.00	204.12	0.00
202.57	0.00	203.09	0.00	203.61	0.00	204.13	0.00
202.58	0.00	203.10	0.00	203.62	0.00	204.14	0.00
202.59	0.00	203.11	0.00	203.63	0.00	204.15	0.00

Stage-Discharge for Pond B-4B: Basin #4B (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
204.16	0.00	204.68	0.00	205.20	0.00
204.17	0.00	204.69	0.00	205.21	0.00
204.18	0.00	204.70	0.00	205.22	0.00
204.19	0.00	204.71	0.00	205.23	0.00
204.20	0.00	204.72	0.00	205.24	0.00
204.21	0.00	204.73	0.00	205.25	0.00
204.22	0.00	204.74	0.00	205.26	0.00
204.23	0.00	204.75	0.00	205.27	0.00
204.24	0.00	204.76	0.00	205.28	0.00
204.25	0.00	204.77	0.00	205.29	0.00
204.26	0.00	204.78	0.00	205.30	0.00
204.27	0.00	204.79	0.00	205.31	0.00
204.28	0.00	204.80	0.00	205.32	0.00
204.29	0.00	204.81	0.00	205.33	0.00
204.30	0.00	204.82	0.00	205.34	0.00
204.31	0.00	204.83	0.00	205.35	0.00
204.32	0.00	204.84	0.00	205.36	0.00
204.33	0.00	204.85	0.00	205.37	0.00
204.34	0.00	204.86	0.00	205.38	0.00
204.35	0.00	204.87	0.00	205.39	0.00
204.36	0.00	204.88	0.00	205.40	0.00
204.37	0.00	204.89	0.00	205.41	0.00
204.38	0.00	204.90	0.00	205.42	0.00
204.39	0.00	204.91	0.00	205.43	0.00
204.40	0.00	204.92	0.00	205.44	0.00
204.41	0.00	204.93	0.00	205.45	0.00
204.42	0.00	204.94	0.00	205.46	0.12
204.43	0.00	204.95	0.00	205.47	0.33
204.44	0.00	204.96	0.00	205.48	0.61
204.45	0.00	204.97	0.00	205.49	0.94
204.46	0.00	204.98	0.00	205.50	1.31
204.47	0.00	204.99	0.00		
204.48	0.00	205.00	0.00		
204.49	0.00	205.01	0.00		
204.50	0.00	205.02	0.00		
204.51	0.00	205.03	0.00		
204.52	0.00	205.04	0.00		
204.53	0.00	205.05	0.00		
204.54	0.00	205.06	0.00		
204.55	0.00	205.07	0.00		
204.56	0.00	205.08	0.00		
204.57	0.00	205.09	0.00		
204.58	0.00	205.10	0.00		
204.59	0.00	205.11	0.00		
204.60	0.00	205.12	0.00		
204.61	0.00	205.13	0.00		
204.62	0.00	205.14	0.00		
204.63	0.00	205.15	0.00		
204.64	0.00	205.16	0.00		
204.65	0.00	205.17	0.00		
204.66	0.00	205.18	0.00		
204.67	0.00	205.19	0.00		

Stage-Area-Storage for Pond B-4B: Basin #4B

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
200.00	1,852	0	200.52	2,226	1,060
200.01	1,859	19	200.53	2,233	1,083
200.02	1,866	37	200.54	2,240	1,105
200.03	1,874	56	200.55	2,247	1,127
200.04	1,881	75	200.56	2,255	1,150
200.05	1,888	93	200.57	2,262	1,172
200.06	1,895	112	200.58	2,269	1,195
200.07	1,902	131	200.59	2,276	1,218
200.08	1,910	150	200.60	2,283	1,241
200.09	1,917	170	200.61	2,291	1,263
200.10	1,924	189	200.62	2,298	1,286
200.11	1,931	208	200.63	2,305	1,309
200.12	1,938	227	200.64	2,312	1,333
200.13	1,945	247	200.65	2,319	1,356
200.14	1,953	266	200.66	2,327	1,379
200.15	1,960	286	200.67	2,334	1,402
200.16	1,967	306	200.68	2,341	1,426
200.17	1,974	325	200.69	2,348	1,449
200.18	1,981	345	200.70	2,355	1,473
200.19	1,989	365	200.71	2,362	1,496
200.20	1,996	385	200.72	2,370	1,520
200.21	2,003	405	200.73	2,377	1,544
200.22	2,010	425	200.74	2,384	1,567
200.23	2,017	445	200.75	2,391	1,591
200.24	2,025	465	200.76	2,398	1,615
200.25	2,032	485	200.77	2,406	1,639
200.26	2,039	506	200.78	2,413	1,663
200.27	2,046	526	200.79	2,420	1,687
200.28	2,053	547	200.80	2,427	1,712
200.29	2,061	567	200.81	2,434	1,736
200.30	2,068	588	200.82	2,442	1,760
200.31	2,075	609	200.83	2,449	1,785
200.32	2,082	629	200.84	2,456	1,809
200.33	2,089	650	200.85	2,463	1,834
200.34	2,096	671	200.86	2,470	1,859
200.35	2,104	692	200.87	2,478	1,883
200.36	2,111	713	200.88	2,485	1,908
200.37	2,118	734	200.89	2,492	1,933
200.38	2,125	756	200.90	2,499	1,958
200.39	2,132	777	200.91	2,506	1,983
200.40	2,140	798	200.92	2,513	2,008
200.41	2,147	820	200.93	2,521	2,033
200.42	2,154	841	200.94	2,528	2,059
200.43	2,161	863	200.95	2,535	2,084
200.44	2,168	884	200.96	2,542	2,109
200.45	2,176	906	200.97	2,549	2,135
200.46	2,183	928	200.98	2,557	2,160
200.47	2,190	950	200.99	2,564	2,186
200.48	2,197	972	201.00	2,571	2,212
200.49	2,204	994	201.01	2,579	2,237
200.50	2,212	1,016	201.02	2,587	2,263
200.51	2,219	1,038	201.03	2,595	2,289

Stage-Area-Storage for Pond B-4B: Basin #4B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
201.04	2,604	2,315	201.56	3,026	3,779
201.05	2,612	2,341	201.57	3,034	3,809
201.06	2,620	2,367	201.58	3,043	3,839
201.07	2,628	2,393	201.59	3,051	3,870
201.08	2,636	2,420	201.60	3,059	3,900
201.09	2,644	2,446	201.61	3,067	3,931
201.10	2,652	2,473	201.62	3,075	3,962
201.11	2,660	2,499	201.63	3,083	3,993
201.12	2,669	2,526	201.64	3,091	4,023
201.13	2,677	2,553	201.65	3,099	4,054
201.14	2,685	2,579	201.66	3,108	4,085
201.15	2,693	2,606	201.67	3,116	4,117
201.16	2,701	2,633	201.68	3,124	4,148
201.17	2,709	2,660	201.69	3,132	4,179
201.18	2,717	2,687	201.70	3,140	4,210
201.19	2,725	2,715	201.71	3,148	4,242
201.20	2,734	2,742	201.72	3,156	4,273
201.21	2,742	2,769	201.73	3,164	4,305
201.22	2,750	2,797	201.74	3,173	4,337
201.23	2,758	2,824	201.75	3,181	4,368
201.24	2,766	2,852	201.76	3,189	4,400
201.25	2,774	2,880	201.77	3,197	4,432
201.26	2,782	2,907	201.78	3,205	4,464
201.27	2,791	2,935	201.79	3,213	4,496
201.28	2,799	2,963	201.80	3,221	4,528
201.29	2,807	2,991	201.81	3,230	4,561
201.30	2,815	3,019	201.82	3,238	4,593
201.31	2,823	3,048	201.83	3,246	4,625
201.32	2,831	3,076	201.84	3,254	4,658
201.33	2,839	3,104	201.85	3,262	4,691
201.34	2,847	3,133	201.86	3,270	4,723
201.35	2,856	3,161	201.87	3,278	4,756
201.36	2,864	3,190	201.88	3,286	4,789
201.37	2,872	3,218	201.89	3,295	4,822
201.38	2,880	3,247	201.90	3,303	4,855
201.39	2,888	3,276	201.91	3,311	4,888
201.40	2,896	3,305	201.92	3,319	4,921
201.41	2,904	3,334	201.93	3,327	4,954
201.42	2,912	3,363	201.94	3,335	4,987
201.43	2,921	3,392	201.95	3,343	5,021
201.44	2,929	3,421	201.96	3,351	5,054
201.45	2,937	3,451	201.97	3,360	5,088
201.46	2,945	3,480	201.98	3,368	5,121
201.47	2,953	3,510	201.99	3,376	5,155
201.48	2,961	3,539	202.00	3,384	5,189
201.49	2,969	3,569	202.01	3,393	5,223
201.50	2,978	3,599	202.02	3,402	5,257
201.51	2,986	3,628	202.03	3,411	5,291
201.52	2,994	3,658	202.04	3,420	5,325
201.53	3,002	3,688	202.05	3,429	5,359
201.54	3,010	3,718	202.06	3,438	5,394
201.55	3,018	3,749	202.07	3,448	5,428

Stage-Area-Storage for Pond B-4B: Basin #4B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
202.08	3,457	5,463	202.60	3,929	7,383
202.09	3,466	5,497	202.61	3,938	7,422
202.10	3,475	5,532	202.62	3,947	7,462
202.11	3,484	5,567	202.63	3,956	7,501
202.12	3,493	5,602	202.64	3,965	7,541
202.13	3,502	5,637	202.65	3,974	7,580
202.14	3,511	5,672	202.66	3,983	7,620
202.15	3,520	5,707	202.67	3,992	7,660
202.16	3,529	5,742	202.68	4,001	7,700
202.17	3,538	5,777	202.69	4,011	7,740
202.18	3,547	5,813	202.70	4,020	7,780
202.19	3,557	5,848	202.71	4,029	7,821
202.20	3,566	5,884	202.72	4,038	7,861
202.21	3,575	5,920	202.73	4,047	7,901
202.22	3,584	5,955	202.74	4,056	7,942
202.23	3,593	5,991	202.75	4,065	7,982
202.24	3,602	6,027	202.76	4,074	8,023
202.25	3,611	6,063	202.77	4,083	8,064
202.26	3,620	6,100	202.78	4,092	8,105
202.27	3,629	6,136	202.79	4,101	8,146
202.28	3,638	6,172	202.80	4,110	8,187
202.29	3,647	6,209	202.81	4,119	8,228
202.30	3,656	6,245	202.82	4,129	8,269
202.31	3,665	6,282	202.83	4,138	8,310
202.32	3,675	6,318	202.84	4,147	8,352
202.33	3,684	6,355	202.85	4,156	8,393
202.34	3,693	6,392	202.86	4,165	8,435
202.35	3,702	6,429	202.87	4,174	8,477
202.36	3,711	6,466	202.88	4,183	8,518
202.37	3,720	6,503	202.89	4,192	8,560
202.38	3,729	6,540	202.90	4,201	8,602
202.39	3,738	6,578	202.91	4,210	8,644
202.40	3,747	6,615	202.92	4,219	8,687
202.41	3,756	6,653	202.93	4,228	8,729
202.42	3,765	6,690	202.94	4,238	8,771
202.43	3,774	6,728	202.95	4,247	8,814
202.44	3,784	6,766	202.96	4,256	8,856
202.45	3,793	6,804	202.97	4,265	8,899
202.46	3,802	6,842	202.98	4,274	8,941
202.47	3,811	6,880	202.99	4,283	8,984
202.48	3,820	6,918	203.00	4,292	9,027
202.49	3,829	6,956	203.01	4,302	9,070
202.50	3,838	6,995	203.02	4,312	9,113
202.51	3,847	7,033	203.03	4,322	9,156
202.52	3,856	7,071	203.04	4,332	9,199
202.53	3,865	7,110	203.05	4,342	9,243
202.54	3,874	7,149	203.06	4,352	9,286
202.55	3,883	7,188	203.07	4,362	9,330
202.56	3,892	7,226	203.08	4,372	9,374
202.57	3,902	7,265	203.09	4,382	9,417
202.58	3,911	7,304	203.10	4,392	9,461
202.59	3,920	7,344	203.11	4,402	9,505

Stage-Area-Storage for Pond B-4B: Basin #4B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
203.12	4,412	9,549	203.64	4,933	11,979
203.13	4,422	9,593	203.65	4,943	12,028
203.14	4,432	9,638	203.66	4,953	12,078
203.15	4,442	9,682	203.67	4,963	12,128
203.16	4,452	9,727	203.68	4,973	12,177
203.17	4,462	9,771	203.69	4,983	12,227
203.18	4,472	9,816	203.70	4,993	12,277
203.19	4,482	9,861	203.71	5,003	12,327
203.20	4,492	9,905	203.72	5,013	12,377
203.21	4,502	9,950	203.73	5,023	12,427
203.22	4,512	9,995	203.74	5,033	12,477
203.23	4,522	10,041	203.75	5,044	12,528
203.24	4,532	10,086	203.76	5,054	12,578
203.25	4,543	10,131	203.77	5,064	12,629
203.26	4,553	10,177	203.78	5,074	12,680
203.27	4,563	10,222	203.79	5,084	12,730
203.28	4,573	10,268	203.80	5,094	12,781
203.29	4,583	10,314	203.81	5,104	12,832
203.30	4,593	10,360	203.82	5,114	12,883
203.31	4,603	10,406	203.83	5,124	12,934
203.32	4,613	10,452	203.84	5,134	12,986
203.33	4,623	10,498	203.85	5,144	13,037
203.34	4,633	10,544	203.86	5,154	13,089
203.35	4,643	10,591	203.87	5,164	13,140
203.36	4,653	10,637	203.88	5,174	13,192
203.37	4,663	10,684	203.89	5,184	13,244
203.38	4,673	10,730	203.90	5,194	13,296
203.39	4,683	10,777	203.91	5,204	13,348
203.40	4,693	10,824	203.92	5,214	13,400
203.41	4,703	10,871	203.93	5,224	13,452
203.42	4,713	10,918	203.94	5,234	13,504
203.43	4,723	10,965	203.95	5,244	13,557
203.44	4,733	11,012	203.96	5,254	13,609
203.45	4,743	11,060	203.97	5,264	13,662
203.46	4,753	11,107	203.98	5,274	13,714
203.47	4,763	11,155	203.99	5,284	13,767
203.48	4,773	11,203	204.00	5,294	13,820
203.49	4,783	11,250	204.01	5,305	13,873
203.50	4,793	11,298	204.02	5,316	13,926
203.51	4,803	11,346	204.03	5,327	13,979
203.52	4,813	11,394	204.04	5,338	14,033
203.53	4,823	11,442	204.05	5,349	14,086
203.54	4,833	11,491	204.06	5,360	14,140
203.55	4,843	11,539	204.07	5,371	14,193
203.56	4,853	11,588	204.08	5,382	14,247
203.57	4,863	11,636	204.09	5,393	14,301
203.58	4,873	11,685	204.10	5,404	14,355
203.59	4,883	11,734	204.11	5,415	14,409
203.60	4,893	11,783	204.12	5,426	14,463
203.61	4,903	11,832	204.13	5,437	14,518
203.62	4,913	11,881	204.14	5,448	14,572
203.63	4,923	11,930	204.15	5,459	14,626

Stage-Area-Storage for Pond B-4B: Basin #4B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
204.16	5,470	14,681	204.68	6,041	17,674
204.17	5,481	14,736	204.69	6,052	17,734
204.18	5,492	14,791	204.70	6,063	17,795
204.19	5,503	14,846	204.71	6,074	17,856
204.20	5,514	14,901	204.72	6,085	17,917
204.21	5,525	14,956	204.73	6,096	17,977
204.22	5,536	15,011	204.74	6,107	18,038
204.23	5,547	15,067	204.75	6,118	18,100
204.24	5,558	15,122	204.76	6,129	18,161
204.25	5,569	15,178	204.77	6,140	18,222
204.26	5,580	15,234	204.78	6,151	18,284
204.27	5,591	15,289	204.79	6,162	18,345
204.28	5,602	15,345	204.80	6,173	18,407
204.29	5,613	15,401	204.81	6,184	18,469
204.30	5,624	15,458	204.82	6,195	18,531
204.31	5,635	15,514	204.83	6,206	18,593
204.32	5,646	15,570	204.84	6,217	18,655
204.33	5,657	15,627	204.85	6,228	18,717
204.34	5,668	15,683	204.86	6,239	18,779
204.35	5,679	15,740	204.87	6,250	18,842
204.36	5,690	15,797	204.88	6,261	18,904
204.37	5,701	15,854	204.89	6,272	18,967
204.38	5,712	15,911	204.90	6,283	19,030
204.39	5,723	15,968	204.91	6,294	19,093
204.40	5,734	16,026	204.92	6,305	19,156
204.41	5,745	16,083	204.93	6,316	19,219
204.42	5,756	16,140	204.94	6,327	19,282
204.43	5,767	16,198	204.95	6,338	19,345
204.44	5,778	16,256	204.96	6,349	19,409
204.45	5,789	16,314	204.97	6,360	19,472
204.46	5,800	16,372	204.98	6,371	19,536
204.47	5,811	16,430	204.99	6,382	19,600
204.48	5,822	16,488	205.00	6,393	19,664
204.49	5,833	16,546	205.01	6,404	19,727
204.50	5,844	16,604	205.02	6,415	19,792
204.51	5,854	16,663	205.03	6,425	19,856
204.52	5,865	16,721	205.04	6,436	19,920
204.53	5,876	16,780	205.05	6,447	19,985
204.54	5,887	16,839	205.06	6,458	20,049
204.55	5,898	16,898	205.07	6,469	20,114
204.56	5,909	16,957	205.08	6,480	20,178
204.57	5,920	17,016	205.09	6,490	20,243
204.58	5,931	17,075	205.10	6,501	20,308
204.59	5,942	17,135	205.11	6,512	20,373
204.60	5,953	17,194	205.12	6,523	20,438
204.61	5,964	17,254	205.13	6,534	20,504
204.62	5,975	17,314	205.14	6,544	20,569
204.63	5,986	17,373	205.15	6,555	20,635
204.64	5,997	17,433	205.16	6,566	20,700
204.65	6,008	17,493	205.17	6,577	20,766
204.66	6,019	17,553	205.18	6,588	20,832
204.67	6,030	17,614	205.19	6,599	20,898

Stage-Area-Storage for Pond B-4B: Basin #4B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
205.20	6,609	20,964
205.21	6,620	21,030
205.22	6,631	21,096
205.23	6,642	21,163
205.24	6,653	21,229
205.25	6,664	21,296
205.26	6,674	21,362
205.27	6,685	21,429
205.28	6,696	21,496
205.29	6,707	21,563
205.30	6,718	21,630
205.31	6,728	21,697
205.32	6,739	21,765
205.33	6,750	21,832
205.34	6,761	21,900
205.35	6,772	21,967
205.36	6,783	22,035
205.37	6,793	22,103
205.38	6,804	22,171
205.39	6,815	22,239
205.40	6,826	22,307
205.41	6,837	22,376
205.42	6,847	22,444
205.43	6,858	22,513
205.44	6,869	22,581
205.45	6,880	22,650
205.46	6,891	22,719
205.47	6,902	22,788
205.48	6,912	22,857
205.49	6,923	22,926
205.50	6,934	22,995

Summary for Pond B-5: Basin #5

Inflow Area = 5.341 ac, 32.20% Impervious, Inflow Depth = 0.99" for Current 10 yr event
 Inflow = 1.83 cfs @ 12.18 hrs, Volume= 0.440 af
 Outflow = 0.16 cfs @ 24.18 hrs, Volume= 0.300 af, Atten= 91%, Lag= 720.2 min
 Primary = 0.16 cfs @ 24.18 hrs, Volume= 0.300 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 201.11' @ 24.18 hrs Surf.Area= 12,933 sf Storage= 13,650 cf

Plug-Flow detention time= 683.8 min calculated for 0.300 af (68% of inflow)
 Center-of-Mass det. time= 562.3 min (1,577.1 - 1,014.7)

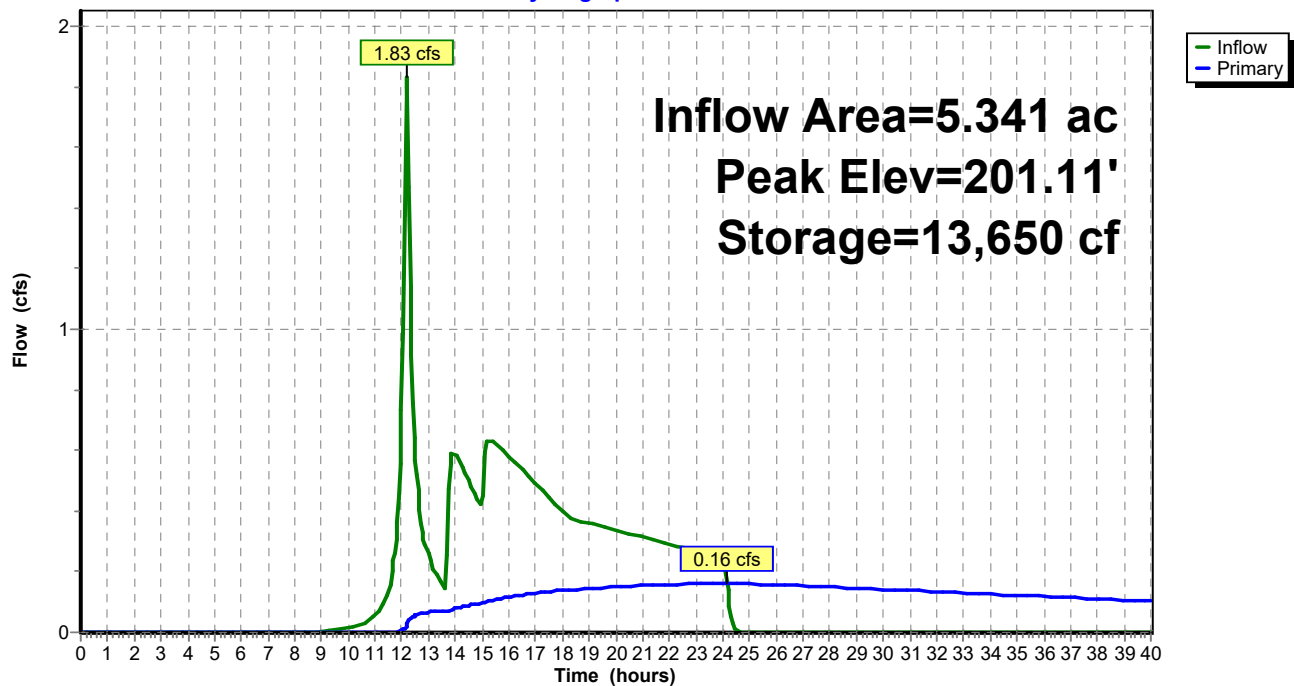
Volume	Invert	Avail.Storage	Storage Description
#1	200.00'	91,976 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
200.00	11,631	0	0
201.00	12,798	12,215	12,215
202.00	14,009	13,404	25,618
203.00	15,262	14,636	40,254
204.00	16,558	15,910	56,164
205.00	17,896	17,227	73,391
206.00	19,275	18,586	91,976

Device	Routing	Invert	Outlet Devices
#1	Primary	198.65'	18.0" Round Culvert L= 70.0' Ke= 0.500 Inlet / Outlet Invert= 198.65' / 196.00' S= 0.0379 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	200.02'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	201.25'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	205.00'	50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.16 cfs @ 24.18 hrs HW=201.11' (Free Discharge)

1=Culvert (Passes 0.16 cfs of 11.13 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.16 cfs @ 4.78 fps)
 3=Sharp-Crested Rectangular Weir(Controls 0.00 cfs)
 4=Broad-Crested Rectangular Weir(Controls 0.00 cfs)

Pond B-5: Basin #5**Hydrograph**

Stage-Discharge for Pond B-5: Basin #5

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
200.00	0.00	200.52	0.10	201.04	0.16	201.56	2.42
200.01	0.00	200.53	0.10	201.05	0.16	201.57	2.53
200.02	0.00	200.54	0.11	201.06	0.16	201.58	2.64
200.03	0.00	200.55	0.11	201.07	0.16	201.59	2.75
200.04	0.00	200.56	0.11	201.08	0.16	201.60	2.86
200.05	0.00	200.57	0.11	201.09	0.16	201.61	2.97
200.06	0.00	200.58	0.11	201.10	0.16	201.62	3.09
200.07	0.00	200.59	0.11	201.11	0.16	201.63	3.21
200.08	0.01	200.60	0.11	201.12	0.16	201.64	3.33
200.09	0.01	200.61	0.11	201.13	0.16	201.65	3.45
200.10	0.01	200.62	0.12	201.14	0.17	201.66	3.57
200.11	0.01	200.63	0.12	201.15	0.17	201.67	3.69
200.12	0.02	200.64	0.12	201.16	0.17	201.68	3.81
200.13	0.02	200.65	0.12	201.17	0.17	201.69	3.94
200.14	0.02	200.66	0.12	201.18	0.17	201.70	4.07
200.15	0.03	200.67	0.12	201.19	0.17	201.71	4.19
200.16	0.03	200.68	0.12	201.20	0.17	201.72	4.32
200.17	0.03	200.69	0.12	201.21	0.17	201.73	4.45
200.18	0.04	200.70	0.12	201.22	0.17	201.74	4.59
200.19	0.04	200.71	0.13	201.23	0.17	201.75	4.72
200.20	0.05	200.72	0.13	201.24	0.17	201.76	4.85
200.21	0.05	200.73	0.13	201.25	0.17	201.77	4.99
200.22	0.05	200.74	0.13	201.26	0.19	201.78	5.12
200.23	0.05	200.75	0.13	201.27	0.21	201.79	5.26
200.24	0.06	200.76	0.13	201.28	0.24	201.80	5.40
200.25	0.06	200.77	0.13	201.29	0.28	201.81	5.54
200.26	0.06	200.78	0.13	201.30	0.32	201.82	5.68
200.27	0.06	200.79	0.13	201.31	0.37	201.83	5.82
200.28	0.06	200.80	0.13	201.32	0.42	201.84	5.97
200.29	0.07	200.81	0.14	201.33	0.48	201.85	6.11
200.30	0.07	200.82	0.14	201.34	0.53	201.86	6.26
200.31	0.07	200.83	0.14	201.35	0.59	201.87	6.40
200.32	0.07	200.84	0.14	201.36	0.66	201.88	6.55
200.33	0.07	200.85	0.14	201.37	0.72	201.89	6.70
200.34	0.08	200.86	0.14	201.38	0.79	201.90	6.85
200.35	0.08	200.87	0.14	201.39	0.87	201.91	7.00
200.36	0.08	200.88	0.14	201.40	0.94	201.92	7.15
200.37	0.08	200.89	0.14	201.41	1.02	201.93	7.31
200.38	0.08	200.90	0.14	201.42	1.10	201.94	7.46
200.39	0.08	200.91	0.15	201.43	1.18	201.95	7.61
200.40	0.09	200.92	0.15	201.44	1.26	201.96	7.77
200.41	0.09	200.93	0.15	201.45	1.35	201.97	7.93
200.42	0.09	200.94	0.15	201.46	1.44	201.98	8.08
200.43	0.09	200.95	0.15	201.47	1.53	201.99	8.24
200.44	0.09	200.96	0.15	201.48	1.62	202.00	8.40
200.45	0.09	200.97	0.15	201.49	1.71	202.01	8.56
200.46	0.10	200.98	0.15	201.50	1.81	202.02	8.72
200.47	0.10	200.99	0.15	201.51	1.90	202.03	8.89
200.48	0.10	201.00	0.15	201.52	2.00	202.04	9.05
200.49	0.10	201.01	0.15	201.53	2.11	202.05	9.21
200.50	0.10	201.02	0.16	201.54	2.21	202.06	9.38
200.51	0.10	201.03	0.16	201.55	2.31	202.07	9.54

Stage-Discharge for Pond B-5: Basin #5 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
202.08	9.71	202.60	15.22	203.12	16.41	203.64	17.52
202.09	9.88	202.61	15.24	203.13	16.43	203.65	17.54
202.10	10.05	202.62	15.27	203.14	16.46	203.66	17.56
202.11	10.21	202.63	15.29	203.15	16.48	203.67	17.58
202.12	10.38	202.64	15.32	203.16	16.50	203.68	17.60
202.13	10.56	202.65	15.34	203.17	16.52	203.69	17.62
202.14	10.73	202.66	15.36	203.18	16.54	203.70	17.64
202.15	10.90	202.67	15.39	203.19	16.56	203.71	17.66
202.16	11.07	202.68	15.41	203.20	16.59	203.72	17.69
202.17	11.25	202.69	15.43	203.21	16.61	203.73	17.71
202.18	11.42	202.70	15.46	203.22	16.63	203.74	17.73
202.19	11.60	202.71	15.48	203.23	16.65	203.75	17.75
202.20	11.77	202.72	15.50	203.24	16.67	203.76	17.77
202.21	11.95	202.73	15.53	203.25	16.70	203.77	17.79
202.22	12.13	202.74	15.55	203.26	16.72	203.78	17.81
202.23	12.31	202.75	15.57	203.27	16.74	203.79	17.83
202.24	12.49	202.76	15.60	203.28	16.76	203.80	17.85
202.25	12.67	202.77	15.62	203.29	16.78	203.81	17.87
202.26	12.85	202.78	15.64	203.30	16.80	203.82	17.89
202.27	13.03	202.79	15.67	203.31	16.82	203.83	17.91
202.28	13.21	202.80	15.69	203.32	16.85	203.84	17.93
202.29	13.39	202.81	15.71	203.33	16.87	203.85	17.95
202.30	13.58	202.82	15.74	203.34	16.89	203.86	17.97
202.31	13.76	202.83	15.76	203.35	16.91	203.87	17.99
202.32	13.95	202.84	15.78	203.36	16.93	203.88	18.01
202.33	14.13	202.85	15.80	203.37	16.95	203.89	18.03
202.34	14.32	202.86	15.83	203.38	16.97	203.90	18.05
202.35	14.51	202.87	15.85	203.39	17.00	203.91	18.07
202.36	14.64	202.88	15.87	203.40	17.02	203.92	18.09
202.37	14.66	202.89	15.90	203.41	17.04	203.93	18.11
202.38	14.69	202.90	15.92	203.42	17.06	203.94	18.13
202.39	14.71	202.91	15.94	203.43	17.08	203.95	18.15
202.40	14.74	202.92	15.96	203.44	17.10	203.96	18.17
202.41	14.76	202.93	15.99	203.45	17.12	203.97	18.19
202.42	14.79	202.94	16.01	203.46	17.14	203.98	18.21
202.43	14.81	202.95	16.03	203.47	17.17	203.99	18.23
202.44	14.84	202.96	16.05	203.48	17.19	204.00	18.25
202.45	14.86	202.97	16.08	203.49	17.21	204.01	18.27
202.46	14.88	202.98	16.10	203.50	17.23	204.02	18.29
202.47	14.91	202.99	16.12	203.51	17.25	204.03	18.31
202.48	14.93	203.00	16.14	203.52	17.27	204.04	18.33
202.49	14.96	203.01	16.17	203.53	17.29	204.05	18.35
202.50	14.98	203.02	16.19	203.54	17.31	204.06	18.37
202.51	15.01	203.03	16.21	203.55	17.33	204.07	18.39
202.52	15.03	203.04	16.23	203.56	17.35	204.08	18.41
202.53	15.05	203.05	16.26	203.57	17.38	204.09	18.43
202.54	15.08	203.06	16.28	203.58	17.40	204.10	18.45
202.55	15.10	203.07	16.30	203.59	17.42	204.11	18.47
202.56	15.13	203.08	16.32	203.60	17.44	204.12	18.49
202.57	15.15	203.09	16.34	203.61	17.46	204.13	18.51
202.58	15.17	203.10	16.37	203.62	17.48	204.14	18.52
202.59	15.20	203.11	16.39	203.63	17.50	204.15	18.54

Stage-Discharge for Pond B-5: Basin #5 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
204.16	18.56	204.68	19.55	205.20	31.06	205.72	106.34
204.17	18.58	204.69	19.57	205.21	31.92	205.73	108.14
204.18	18.60	204.70	19.59	205.22	32.81	205.74	109.95
204.19	18.62	204.71	19.61	205.23	33.73	205.75	111.78
204.20	18.64	204.72	19.63	205.24	34.67	205.76	113.62
204.21	18.66	204.73	19.64	205.25	35.63	205.77	115.47
204.22	18.68	204.74	19.66	205.26	36.62	205.78	117.33
204.23	18.70	204.75	19.68	205.27	37.64	205.79	119.20
204.24	18.72	204.76	19.70	205.28	38.68	205.80	121.09
204.25	18.74	204.77	19.72	205.29	39.75	205.81	123.03
204.26	18.76	204.78	19.74	205.30	40.84	205.82	124.98
204.27	18.78	204.79	19.75	205.31	41.95	205.83	126.94
204.28	18.80	204.80	19.77	205.32	43.09	205.84	128.92
204.29	18.82	204.81	19.79	205.33	44.25	205.85	130.90
204.30	18.83	204.82	19.81	205.34	45.44	205.86	132.91
204.31	18.85	204.83	19.83	205.35	46.65	205.87	134.92
204.32	18.87	204.84	19.85	205.36	47.89	205.88	136.95
204.33	18.89	204.85	19.86	205.37	49.15	205.89	138.99
204.34	18.91	204.86	19.88	205.38	50.43	205.90	141.05
204.35	18.93	204.87	19.90	205.39	51.74	205.91	143.11
204.36	18.95	204.88	19.92	205.40	53.07	205.92	145.19
204.37	18.97	204.89	19.94	205.41	54.46	205.93	147.29
204.38	18.99	204.90	19.95	205.42	55.86	205.94	149.39
204.39	19.01	204.91	19.97	205.43	57.30	205.95	151.51
204.40	19.03	204.92	19.99	205.44	58.76	205.96	153.64
204.41	19.05	204.93	20.01	205.45	60.25	205.97	155.79
204.42	19.06	204.94	20.03	205.46	61.76	205.98	157.94
204.43	19.08	204.95	20.05	205.47	63.30	205.99	160.11
204.44	19.10	204.96	20.06	205.48	64.87	206.00	162.29
204.45	19.12	204.97	20.08	205.49	66.46		
204.46	19.14	204.98	20.10	205.50	68.08		
204.47	19.16	204.99	20.12	205.51	69.73		
204.48	19.18	205.00	20.14	205.52	71.40		
204.49	19.20	205.01	20.27	205.53	73.10		
204.50	19.22	205.02	20.50	205.54	74.82		
204.51	19.23	205.03	20.80	205.55	76.57		
204.52	19.25	205.04	21.14	205.56	78.35		
204.53	19.27	205.05	21.54	205.57	80.16		
204.54	19.29	205.06	21.97	205.58	81.99		
204.55	19.31	205.07	22.44	205.59	83.85		
204.56	19.33	205.08	22.94	205.60	85.74		
204.57	19.35	205.09	23.47	205.61	87.38		
204.58	19.37	205.10	24.03	205.62	89.04		
204.59	19.38	205.11	24.62	205.63	90.71		
204.60	19.40	205.12	25.24	205.64	92.39		
204.61	19.42	205.13	25.89	205.65	94.09		
204.62	19.44	205.14	26.56	205.66	95.80		
204.63	19.46	205.15	27.25	205.67	97.53		
204.64	19.48	205.16	27.97	205.68	99.26		
204.65	19.50	205.17	28.71	205.69	101.01		
204.66	19.51	205.18	29.47	205.70	102.78		
204.67	19.53	205.19	30.25	205.71	104.55		

Stage-Area-Storage for Pond B-5: Basin #5

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
200.00	11,631	0	200.52	12,238	6,206
200.01	11,643	116	200.53	12,250	6,328
200.02	11,654	233	200.54	12,261	6,451
200.03	11,666	349	200.55	12,273	6,574
200.04	11,678	466	200.56	12,285	6,696
200.05	11,689	583	200.57	12,296	6,819
200.06	11,701	700	200.58	12,308	6,942
200.07	11,713	817	200.59	12,320	7,065
200.08	11,724	934	200.60	12,331	7,189
200.09	11,736	1,052	200.61	12,343	7,312
200.10	11,748	1,169	200.62	12,355	7,436
200.11	11,759	1,286	200.63	12,366	7,559
200.12	11,771	1,404	200.64	12,378	7,683
200.13	11,783	1,522	200.65	12,390	7,807
200.14	11,794	1,640	200.66	12,401	7,931
200.15	11,806	1,758	200.67	12,413	8,055
200.16	11,818	1,876	200.68	12,425	8,179
200.17	11,829	1,994	200.69	12,436	8,303
200.18	11,841	2,112	200.70	12,448	8,428
200.19	11,853	2,231	200.71	12,460	8,552
200.20	11,864	2,350	200.72	12,471	8,677
200.21	11,876	2,468	200.73	12,483	8,802
200.22	11,888	2,587	200.74	12,495	8,926
200.23	11,899	2,706	200.75	12,506	9,051
200.24	11,911	2,825	200.76	12,518	9,177
200.25	11,923	2,944	200.77	12,530	9,302
200.26	11,934	3,064	200.78	12,541	9,427
200.27	11,946	3,183	200.79	12,553	9,553
200.28	11,958	3,302	200.80	12,565	9,678
200.29	11,969	3,422	200.81	12,576	9,804
200.30	11,981	3,542	200.82	12,588	9,930
200.31	11,993	3,662	200.83	12,600	10,056
200.32	12,004	3,782	200.84	12,611	10,182
200.33	12,016	3,902	200.85	12,623	10,308
200.34	12,028	4,022	200.86	12,635	10,434
200.35	12,039	4,142	200.87	12,646	10,561
200.36	12,051	4,263	200.88	12,658	10,687
200.37	12,063	4,383	200.89	12,670	10,814
200.38	12,074	4,504	200.90	12,681	10,941
200.39	12,086	4,625	200.91	12,693	11,067
200.40	12,098	4,746	200.92	12,705	11,194
200.41	12,109	4,867	200.93	12,716	11,321
200.42	12,121	4,988	200.94	12,728	11,449
200.43	12,133	5,109	200.95	12,740	11,576
200.44	12,144	5,231	200.96	12,751	11,704
200.45	12,156	5,352	200.97	12,763	11,831
200.46	12,168	5,474	200.98	12,775	11,959
200.47	12,179	5,595	200.99	12,786	12,087
200.48	12,191	5,717	201.00	12,798	12,215
200.49	12,203	5,839	201.01	12,810	12,343
200.50	12,215	5,961	201.02	12,822	12,471
200.51	12,226	6,084	201.03	12,834	12,599

Stage-Area-Storage for Pond B-5: Basin #5 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
201.04	12,846	12,727	201.56	13,476	19,571
201.05	12,859	12,856	201.57	13,488	19,706
201.06	12,871	12,985	201.58	13,500	19,841
201.07	12,883	13,113	201.59	13,512	19,976
201.08	12,895	13,242	201.60	13,525	20,111
201.09	12,907	13,371	201.61	13,537	20,247
201.10	12,919	13,500	201.62	13,549	20,382
201.11	12,931	13,630	201.63	13,561	20,518
201.12	12,943	13,759	201.64	13,573	20,653
201.13	12,955	13,888	201.65	13,585	20,789
201.14	12,968	14,018	201.66	13,597	20,925
201.15	12,980	14,148	201.67	13,609	21,061
201.16	12,992	14,278	201.68	13,621	21,197
201.17	13,004	14,408	201.69	13,634	21,333
201.18	13,016	14,538	201.70	13,646	21,470
201.19	13,028	14,668	201.71	13,658	21,606
201.20	13,040	14,798	201.72	13,670	21,743
201.21	13,052	14,929	201.73	13,682	21,880
201.22	13,064	15,059	201.74	13,694	22,017
201.23	13,077	15,190	201.75	13,706	22,154
201.24	13,089	15,321	201.76	13,718	22,291
201.25	13,101	15,452	201.77	13,730	22,428
201.26	13,113	15,583	201.78	13,743	22,565
201.27	13,125	15,714	201.79	13,755	22,703
201.28	13,137	15,845	201.80	13,767	22,840
201.29	13,149	15,977	201.81	13,779	22,978
201.30	13,161	16,108	201.82	13,791	23,116
201.31	13,173	16,240	201.83	13,803	23,254
201.32	13,186	16,372	201.84	13,815	23,392
201.33	13,198	16,504	201.85	13,827	23,530
201.34	13,210	16,636	201.86	13,839	23,669
201.35	13,222	16,768	201.87	13,852	23,807
201.36	13,234	16,900	201.88	13,864	23,946
201.37	13,246	17,033	201.89	13,876	24,084
201.38	13,258	17,165	201.90	13,888	24,223
201.39	13,270	17,298	201.91	13,900	24,362
201.40	13,282	17,431	201.92	13,912	24,501
201.41	13,295	17,563	201.93	13,924	24,640
201.42	13,307	17,696	201.94	13,936	24,780
201.43	13,319	17,830	201.95	13,948	24,919
201.44	13,331	17,963	201.96	13,961	25,059
201.45	13,343	18,096	201.97	13,973	25,198
201.46	13,355	18,230	201.98	13,985	25,338
201.47	13,367	18,363	201.99	13,997	25,478
201.48	13,379	18,497	202.00	14,009	25,618
201.49	13,391	18,631	202.01	14,022	25,758
201.50	13,404	18,765	202.02	14,034	25,898
201.51	13,416	18,899	202.03	14,047	26,039
201.52	13,428	19,033	202.04	14,059	26,179
201.53	13,440	19,168	202.05	14,072	26,320
201.54	13,452	19,302	202.06	14,084	26,461
201.55	13,464	19,437	202.07	14,097	26,602

Stage-Area-Storage for Pond B-5: Basin #5 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
202.08	14,109	26,743	202.60	14,761	34,249
202.09	14,122	26,884	202.61	14,773	34,397
202.10	14,134	27,025	202.62	14,786	34,544
202.11	14,147	27,167	202.63	14,798	34,692
202.12	14,159	27,308	202.64	14,811	34,840
202.13	14,172	27,450	202.65	14,823	34,989
202.14	14,184	27,592	202.66	14,836	35,137
202.15	14,197	27,733	202.67	14,849	35,285
202.16	14,209	27,875	202.68	14,861	35,434
202.17	14,222	28,018	202.69	14,874	35,582
202.18	14,235	28,160	202.70	14,886	35,731
202.19	14,247	28,302	202.71	14,899	35,880
202.20	14,260	28,445	202.72	14,911	36,029
202.21	14,272	28,588	202.73	14,924	36,178
202.22	14,285	28,730	202.74	14,936	36,328
202.23	14,297	28,873	202.75	14,949	36,477
202.24	14,310	29,016	202.76	14,961	36,627
202.25	14,322	29,159	202.77	14,974	36,776
202.26	14,335	29,303	202.78	14,986	36,926
202.27	14,347	29,446	202.79	14,999	37,076
202.28	14,360	29,590	202.80	15,011	37,226
202.29	14,372	29,733	202.81	15,024	37,376
202.30	14,385	29,877	202.82	15,036	37,527
202.31	14,397	30,021	202.83	15,049	37,677
202.32	14,410	30,165	202.84	15,062	37,828
202.33	14,422	30,309	202.85	15,074	37,978
202.34	14,435	30,453	202.86	15,087	38,129
202.35	14,448	30,598	202.87	15,099	38,280
202.36	14,460	30,742	202.88	15,112	38,431
202.37	14,473	30,887	202.89	15,124	38,582
202.38	14,485	31,032	202.90	15,137	38,734
202.39	14,498	31,177	202.91	15,149	38,885
202.40	14,510	31,322	202.92	15,162	39,037
202.41	14,523	31,467	202.93	15,174	39,188
202.42	14,535	31,612	202.94	15,187	39,340
202.43	14,548	31,758	202.95	15,199	39,492
202.44	14,560	31,903	202.96	15,212	39,644
202.45	14,573	32,049	202.97	15,224	39,796
202.46	14,585	32,195	202.98	15,237	39,949
202.47	14,598	32,341	202.99	15,249	40,101
202.48	14,610	32,487	203.00	15,262	40,254
202.49	14,623	32,633	203.01	15,275	40,406
202.50	14,636	32,779	203.02	15,288	40,559
202.51	14,648	32,926	203.03	15,301	40,712
202.52	14,661	33,072	203.04	15,314	40,865
202.53	14,673	33,219	203.05	15,327	41,018
202.54	14,686	33,366	203.06	15,340	41,172
202.55	14,698	33,512	203.07	15,353	41,325
202.56	14,711	33,660	203.08	15,366	41,479
202.57	14,723	33,807	203.09	15,379	41,632
202.58	14,736	33,954	203.10	15,392	41,786
202.59	14,748	34,101	203.11	15,405	41,940

Stage-Area-Storage for Pond B-5: Basin #5 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
203.12	15,418	42,094	203.64	16,091	50,287
203.13	15,430	42,249	203.65	16,104	50,448
203.14	15,443	42,403	203.66	16,117	50,609
203.15	15,456	42,557	203.67	16,130	50,770
203.16	15,469	42,712	203.68	16,143	50,931
203.17	15,482	42,867	203.69	16,156	51,093
203.18	15,495	43,022	203.70	16,169	51,254
203.19	15,508	43,177	203.71	16,182	51,416
203.20	15,521	43,332	203.72	16,195	51,578
203.21	15,534	43,487	203.73	16,208	51,740
203.22	15,547	43,643	203.74	16,221	51,902
203.23	15,560	43,798	203.75	16,234	52,065
203.24	15,573	43,954	203.76	16,247	52,227
203.25	15,586	44,110	203.77	16,260	52,389
203.26	15,599	44,265	203.78	16,273	52,552
203.27	15,612	44,421	203.79	16,286	52,715
203.28	15,625	44,578	203.80	16,299	52,878
203.29	15,638	44,734	203.81	16,312	53,041
203.30	15,651	44,890	203.82	16,325	53,204
203.31	15,664	45,047	203.83	16,338	53,367
203.32	15,677	45,204	203.84	16,351	53,531
203.33	15,690	45,361	203.85	16,364	53,694
203.34	15,703	45,517	203.86	16,377	53,858
203.35	15,716	45,675	203.87	16,390	54,022
203.36	15,729	45,832	203.88	16,402	54,186
203.37	15,742	45,989	203.89	16,415	54,350
203.38	15,754	46,147	203.90	16,428	54,514
203.39	15,767	46,304	203.91	16,441	54,679
203.40	15,780	46,462	203.92	16,454	54,843
203.41	15,793	46,620	203.93	16,467	55,008
203.42	15,806	46,778	203.94	16,480	55,172
203.43	15,819	46,936	203.95	16,493	55,337
203.44	15,832	47,094	203.96	16,506	55,502
203.45	15,845	47,253	203.97	16,519	55,667
203.46	15,858	47,411	203.98	16,532	55,833
203.47	15,871	47,570	203.99	16,545	55,998
203.48	15,884	47,729	204.00	16,558	56,164
203.49	15,897	47,887	204.01	16,571	56,329
203.50	15,910	48,047	204.02	16,585	56,495
203.51	15,923	48,206	204.03	16,598	56,661
203.52	15,936	48,365	204.04	16,612	56,827
203.53	15,949	48,524	204.05	16,625	56,993
203.54	15,962	48,684	204.06	16,638	57,159
203.55	15,975	48,844	204.07	16,652	57,326
203.56	15,988	49,003	204.08	16,665	57,492
203.57	16,001	49,163	204.09	16,678	57,659
203.58	16,014	49,323	204.10	16,692	57,826
203.59	16,027	49,484	204.11	16,705	57,993
203.60	16,040	49,644	204.12	16,719	58,160
203.61	16,053	49,804	204.13	16,732	58,327
203.62	16,066	49,965	204.14	16,745	58,495
203.63	16,078	50,126	204.15	16,759	58,662

Stage-Area-Storage for Pond B-5: Basin #5 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
204.16	16,772	58,830	204.68	17,468	67,732
204.17	16,785	58,998	204.69	17,481	67,907
204.18	16,799	59,166	204.70	17,495	68,082
204.19	16,812	59,334	204.71	17,508	68,257
204.20	16,826	59,502	204.72	17,521	68,432
204.21	16,839	59,670	204.73	17,535	68,607
204.22	16,852	59,839	204.74	17,548	68,783
204.23	16,866	60,007	204.75	17,562	68,958
204.24	16,879	60,176	204.76	17,575	69,134
204.25	16,893	60,345	204.77	17,588	69,310
204.26	16,906	60,514	204.78	17,602	69,486
204.27	16,919	60,683	204.79	17,615	69,662
204.28	16,933	60,852	204.80	17,628	69,838
204.29	16,946	61,022	204.81	17,642	70,014
204.30	16,959	61,191	204.82	17,655	70,191
204.31	16,973	61,361	204.83	17,669	70,368
204.32	16,986	61,531	204.84	17,682	70,544
204.33	17,000	61,700	204.85	17,695	70,721
204.34	17,013	61,871	204.86	17,709	70,898
204.35	17,026	62,041	204.87	17,722	71,075
204.36	17,040	62,211	204.88	17,735	71,253
204.37	17,053	62,382	204.89	17,749	71,430
204.38	17,066	62,552	204.90	17,762	71,608
204.39	17,080	62,723	204.91	17,776	71,785
204.40	17,093	62,894	204.92	17,789	71,963
204.41	17,107	63,065	204.93	17,802	72,141
204.42	17,120	63,236	204.94	17,816	72,319
204.43	17,133	63,407	204.95	17,829	72,497
204.44	17,147	63,579	204.96	17,842	72,676
204.45	17,160	63,750	204.97	17,856	72,854
204.46	17,173	63,922	204.98	17,869	73,033
204.47	17,187	64,094	204.99	17,883	73,212
204.48	17,200	64,265	205.00	17,896	73,391
204.49	17,214	64,438	205.01	17,910	73,570
204.50	17,227	64,610	205.02	17,924	73,749
204.51	17,240	64,782	205.03	17,937	73,928
204.52	17,254	64,955	205.04	17,951	74,107
204.53	17,267	65,127	205.05	17,965	74,287
204.54	17,281	65,300	205.06	17,979	74,467
204.55	17,294	65,473	205.07	17,993	74,647
204.56	17,307	65,646	205.08	18,006	74,827
204.57	17,321	65,819	205.09	18,020	75,007
204.58	17,334	65,992	205.10	18,034	75,187
204.59	17,347	66,166	205.11	18,048	75,367
204.60	17,361	66,339	205.12	18,061	75,548
204.61	17,374	66,513	205.13	18,075	75,729
204.62	17,388	66,687	205.14	18,089	75,909
204.63	17,401	66,861	205.15	18,103	76,090
204.64	17,414	67,035	205.16	18,117	76,272
204.65	17,428	67,209	205.17	18,130	76,453
204.66	17,441	67,383	205.18	18,144	76,634
204.67	17,454	67,558	205.19	18,158	76,816

Stage-Area-Storage for Pond B-5: Basin #5 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
205.20	18,172	76,997	205.72	18,889	86,633
205.21	18,186	77,179	205.73	18,903	86,822
205.22	18,199	77,361	205.74	18,916	87,011
205.23	18,213	77,543	205.75	18,930	87,200
205.24	18,227	77,725	205.76	18,944	87,390
205.25	18,241	77,908	205.77	18,958	87,579
205.26	18,255	78,090	205.78	18,972	87,769
205.27	18,268	78,273	205.79	18,985	87,959
205.28	18,282	78,455	205.80	18,999	88,149
205.29	18,296	78,638	205.81	19,013	88,339
205.30	18,310	78,821	205.82	19,027	88,529
205.31	18,323	79,005	205.83	19,041	88,719
205.32	18,337	79,188	205.84	19,054	88,910
205.33	18,351	79,371	205.85	19,068	89,100
205.34	18,365	79,555	205.86	19,082	89,291
205.35	18,379	79,739	205.87	19,096	89,482
205.36	18,392	79,922	205.88	19,110	89,673
205.37	18,406	80,106	205.89	19,123	89,864
205.38	18,420	80,291	205.90	19,137	90,055
205.39	18,434	80,475	205.91	19,151	90,247
205.40	18,448	80,659	205.92	19,165	90,438
205.41	18,461	80,844	205.93	19,178	90,630
205.42	18,475	81,028	205.94	19,192	90,822
205.43	18,489	81,213	205.95	19,206	91,014
205.44	18,503	81,398	205.96	19,220	91,206
205.45	18,517	81,583	205.97	19,234	91,398
205.46	18,530	81,769	205.98	19,247	91,591
205.47	18,544	81,954	205.99	19,261	91,783
205.48	18,558	82,139	206.00	19,275	91,976
205.49	18,572	82,325			
205.50	18,586	82,511			
205.51	18,599	82,697			
205.52	18,613	82,883			
205.53	18,627	83,069			
205.54	18,641	83,255			
205.55	18,654	83,442			
205.56	18,668	83,628			
205.57	18,682	83,815			
205.58	18,696	84,002			
205.59	18,710	84,189			
205.60	18,723	84,376			
205.61	18,737	84,564			
205.62	18,751	84,751			
205.63	18,765	84,939			
205.64	18,779	85,126			
205.65	18,792	85,314			
205.66	18,806	85,502			
205.67	18,820	85,690			
205.68	18,834	85,879			
205.69	18,848	86,067			
205.70	18,861	86,256			
205.71	18,875	86,444			

Summary for Pond B-6: Basin #6

Inflow Area = 1.191 ac, 58.27% Impervious, Inflow Depth = 3.85" for Current 10 yr event
 Inflow = 4.56 cfs @ 12.17 hrs, Volume= 0.382 af
 Outflow = 2.10 cfs @ 12.36 hrs, Volume= 0.310 af, Atten= 54%, Lag= 11.3 min
 Primary = 2.10 cfs @ 12.36 hrs, Volume= 0.310 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 200.38' @ 12.36 hrs Surf.Area= 6,329 sf Storage= 8,102 cf

Plug-Flow detention time= 362.2 min calculated for 0.310 af (81% of inflow)
 Center-of-Mass det. time= 284.2 min (1,060.6 - 776.4)

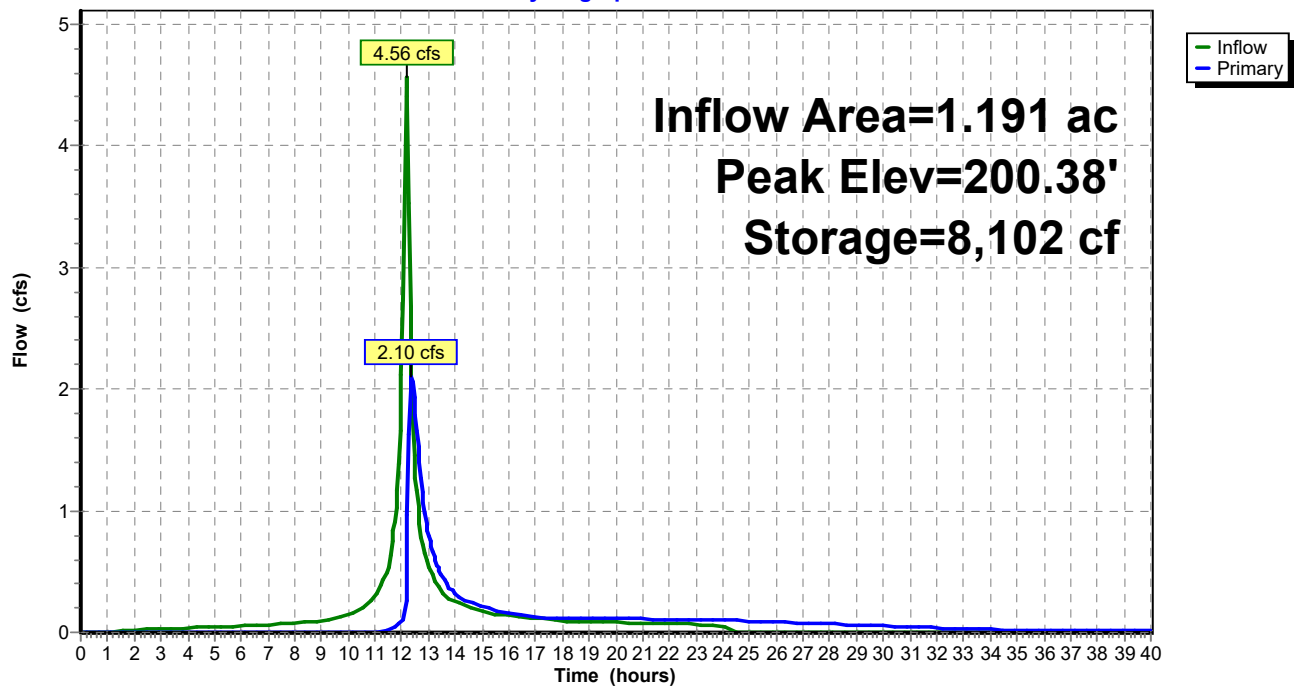
Volume	Invert	Avail.Storage	Storage Description
#1	199.00'	35,769 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
199.00	5,389	0	0
200.00	6,060	5,725	5,725
201.00	6,761	6,411	12,135
202.00	7,490	7,126	19,261
203.00	8,247	7,869	27,129
204.00	9,032	8,640	35,769

Device	Routing	Invert	Outlet Devices
#1	Primary	197.65'	18.0" Round Culvert L= 627.0' Ke= 0.500 Inlet / Outlet Invert= 197.65' / 194.00' S= 0.0058 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	199.50'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	200.10'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	200.89'	50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=2.08 cfs @ 12.36 hrs HW=200.38' (Free Discharge)

1=Culvert (Passes 2.08 cfs of 8.70 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.14 cfs @ 4.25 fps)
 3=Sharp-Crested Rectangular Weir (Weir Controls 1.94 cfs @ 1.74 fps)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-6: Basin #6**Hydrograph**

Stage-Discharge for Pond B-6: Basin #6

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
199.00	0.00	199.52	0.00	200.04	0.11	200.56	4.15
199.01	0.00	199.53	0.00	200.05	0.11	200.57	4.28
199.02	0.00	199.54	0.00	200.06	0.11	200.58	4.41
199.03	0.00	199.55	0.00	200.07	0.11	200.59	4.54
199.04	0.00	199.56	0.01	200.08	0.11	200.60	4.67
199.05	0.00	199.57	0.01	200.09	0.11	200.61	4.81
199.06	0.00	199.58	0.01	200.10	0.12	200.62	4.94
199.07	0.00	199.59	0.01	200.11	0.13	200.63	5.08
199.08	0.00	199.60	0.02	200.12	0.15	200.64	5.22
199.09	0.00	199.61	0.02	200.13	0.19	200.65	5.36
199.10	0.00	199.62	0.02	200.14	0.22	200.66	5.50
199.11	0.00	199.63	0.03	200.15	0.27	200.67	5.64
199.12	0.00	199.64	0.03	200.16	0.31	200.68	5.78
199.13	0.00	199.65	0.03	200.17	0.36	200.69	5.92
199.14	0.00	199.66	0.04	200.18	0.42	200.70	6.07
199.15	0.00	199.67	0.04	200.19	0.48	200.71	6.21
199.16	0.00	199.68	0.05	200.20	0.54	200.72	6.36
199.17	0.00	199.69	0.05	200.21	0.60	200.73	6.51
199.18	0.00	199.70	0.05	200.22	0.67	200.74	6.66
199.19	0.00	199.71	0.05	200.23	0.74	200.75	6.81
199.20	0.00	199.72	0.06	200.24	0.81	200.76	6.96
199.21	0.00	199.73	0.06	200.25	0.89	200.77	7.11
199.22	0.00	199.74	0.06	200.26	0.96	200.78	7.26
199.23	0.00	199.75	0.06	200.27	1.04	200.79	7.42
199.24	0.00	199.76	0.06	200.28	1.12	200.80	7.57
199.25	0.00	199.77	0.07	200.29	1.21	200.81	7.73
199.26	0.00	199.78	0.07	200.30	1.30	200.82	7.88
199.27	0.00	199.79	0.07	200.31	1.38	200.83	8.04
199.28	0.00	199.80	0.07	200.32	1.47	200.84	8.20
199.29	0.00	199.81	0.07	200.33	1.57	200.85	8.36
199.30	0.00	199.82	0.08	200.34	1.66	200.86	8.52
199.31	0.00	199.83	0.08	200.35	1.76	200.87	8.68
199.32	0.00	199.84	0.08	200.36	1.85	200.88	8.84
199.33	0.00	199.85	0.08	200.37	1.95	200.89	9.01
199.34	0.00	199.86	0.08	200.38	2.06	200.90	9.27
199.35	0.00	199.87	0.08	200.39	2.16	200.91	9.49
199.36	0.00	199.88	0.09	200.40	2.26	200.92	9.78
199.37	0.00	199.89	0.09	200.41	2.37	200.93	10.11
199.38	0.00	199.90	0.09	200.42	2.48	200.94	10.50
199.39	0.00	199.91	0.09	200.43	2.59	200.95	10.92
199.40	0.00	199.92	0.09	200.44	2.70	200.96	11.38
199.41	0.00	199.93	0.09	200.45	2.81	200.97	11.87
199.42	0.00	199.94	0.10	200.46	2.93	200.98	12.39
199.43	0.00	199.95	0.10	200.47	3.04	200.99	12.95
199.44	0.00	199.96	0.10	200.48	3.16	201.00	13.53
199.45	0.00	199.97	0.10	200.49	3.28	201.01	14.14
199.46	0.00	199.98	0.10	200.50	3.40	201.02	14.77
199.47	0.00	199.99	0.10	200.51	3.52	201.03	15.43
199.48	0.00	200.00	0.10	200.52	3.64	201.04	16.12
199.49	0.00	200.01	0.10	200.53	3.77	201.05	16.82
199.50	0.00	200.02	0.11	200.54	3.89	201.06	17.55
199.51	0.00	200.03	0.11	200.55	4.02	201.07	18.31

Stage-Discharge for Pond B-6: Basin #6 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
201.08	19.08	201.60	92.90	202.12	202.17	202.64	343.03
201.09	19.88	201.61	94.68	202.13	204.57	202.65	346.04
201.10	20.73	201.62	96.47	202.14	206.99	202.66	349.06
201.11	21.61	201.63	98.28	202.15	209.42	202.67	352.09
201.12	22.52	201.64	100.10	202.16	211.85	202.68	355.14
201.13	23.45	201.65	101.92	202.17	214.30	202.69	358.19
201.14	24.41	201.66	103.77	202.18	216.76	202.70	361.25
201.15	25.39	201.67	105.62	202.19	219.23	202.71	364.32
201.16	26.39	201.68	107.49	202.20	221.71	202.72	367.41
201.17	27.43	201.69	109.36	202.21	224.20	202.73	370.50
201.18	28.48	201.70	111.29	202.22	226.70	202.74	373.61
201.19	29.56	201.71	113.23	202.23	229.21	202.75	376.73
201.20	30.67	201.72	115.19	202.24	231.73	202.76	379.85
201.21	31.80	201.73	117.15	202.25	234.27	202.77	382.99
201.22	32.95	201.74	119.13	202.26	236.81	202.78	386.14
201.23	34.13	201.75	121.13	202.27	239.36	202.79	389.29
201.24	35.33	201.76	123.13	202.28	241.92	202.80	392.46
201.25	36.56	201.77	125.15	202.29	244.50	202.81	395.64
201.26	37.81	201.78	127.19	202.30	247.13	202.82	398.83
201.27	39.08	201.79	129.23	202.31	249.77	202.83	402.03
201.28	40.38	201.80	131.29	202.32	252.42	202.84	405.24
201.29	41.71	201.81	133.36	202.33	255.08	202.85	408.46
201.30	43.08	201.82	135.44	202.34	257.75	202.86	411.69
201.31	44.48	201.83	137.54	202.35	260.43	202.87	414.94
201.32	45.91	201.84	139.65	202.36	263.13	202.88	418.19
201.33	47.36	201.85	141.77	202.37	265.84	202.89	421.45
201.34	48.84	201.86	143.91	202.38	268.55	202.90	424.79
201.35	50.34	201.87	146.06	202.39	271.28	202.91	428.13
201.36	51.87	201.88	148.21	202.40	274.02	202.92	431.49
201.37	53.43	201.89	150.39	202.41	276.77	202.93	434.86
201.38	55.01	201.90	152.52	202.42	279.53	202.94	438.24
201.39	56.62	201.91	154.66	202.43	282.30	202.95	441.63
201.40	58.26	201.92	156.81	202.44	285.09	202.96	445.04
201.41	59.92	201.93	158.98	202.45	287.88	202.97	448.45
201.42	61.61	201.94	161.15	202.46	290.69	202.98	451.88
201.43	63.33	201.95	163.34	202.47	293.50	202.99	455.32
201.44	65.07	201.96	165.53	202.48	296.33	203.00	458.76
201.45	66.84	201.97	167.74	202.49	299.17	203.01	462.22
201.46	68.64	201.98	169.96	202.50	302.02	203.02	465.70
201.47	70.46	201.99	172.18	202.51	304.88	203.03	469.18
201.48	72.31	202.00	174.42	202.52	307.75	203.04	472.67
201.49	74.19	202.01	176.67	202.53	310.63	203.05	476.18
201.50	75.82	202.02	178.93	202.54	313.52	203.06	479.70
201.51	77.47	202.03	181.19	202.55	316.42	203.07	483.22
201.52	79.13	202.04	183.47	202.56	319.34	203.08	486.76
201.53	80.81	202.05	185.76	202.57	322.26	203.09	490.31
201.54	82.50	202.06	188.06	202.58	325.20	203.10	493.88
201.55	84.20	202.07	190.37	202.59	328.14	203.11	497.45
201.56	85.91	202.08	192.68	202.60	331.10	203.12	501.04
201.57	87.64	202.09	195.01	202.61	334.07	203.13	504.63
201.58	89.38	202.10	197.39	202.62	337.04	203.14	508.24
201.59	91.14	202.11	199.77	202.63	340.03	203.15	511.86

Stage-Discharge for Pond B-6: Basin #6 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
203.16	515.49	203.68	715.19
203.17	519.13	203.69	719.23
203.18	522.78	203.70	723.28
203.19	526.45	203.71	727.34
203.20	530.12	203.72	731.41
203.21	533.81	203.73	735.49
203.22	537.50	203.74	739.58
203.23	541.21	203.75	743.67
203.24	544.93	203.76	747.78
203.25	548.67	203.77	751.90
203.26	552.41	203.78	756.02
203.27	556.16	203.79	760.15
203.28	559.93	203.80	764.30
203.29	563.70	203.81	768.45
203.30	567.49	203.82	772.61
203.31	571.29	203.83	776.79
203.32	575.10	203.84	780.97
203.33	578.92	203.85	785.16
203.34	582.76	203.86	789.36
203.35	586.60	203.87	793.57
203.36	590.46	203.88	797.78
203.37	594.32	203.89	802.01
203.38	598.20	203.90	806.43
203.39	602.09	203.91	810.86
203.40	605.86	203.92	815.29
203.41	609.64	203.93	819.74
203.42	613.42	203.94	824.20
203.43	617.22	203.95	828.68
203.44	621.02	203.96	833.16
203.45	624.84	203.97	837.65
203.46	628.66	203.98	842.16
203.47	632.49	203.99	846.68
203.48	636.34	204.00	851.20
203.49	640.19		
203.50	644.05		
203.51	647.92		
203.52	651.81		
203.53	655.70		
203.54	659.60		
203.55	663.51		
203.56	667.42		
203.57	671.35		
203.58	675.29		
203.59	679.24		
203.60	683.20		
203.61	687.16		
203.62	691.14		
203.63	695.12		
203.64	699.12		
203.65	703.12		
203.66	707.13		
203.67	711.16		

Stage-Area-Storage for Pond B-6: Basin #6

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
199.00	5,389	0	199.52	5,738	2,893
199.01	5,396	54	199.53	5,745	2,950
199.02	5,402	108	199.54	5,751	3,008
199.03	5,409	162	199.55	5,758	3,065
199.04	5,416	216	199.56	5,765	3,123
199.05	5,423	270	199.57	5,771	3,181
199.06	5,429	325	199.58	5,778	3,238
199.07	5,436	379	199.59	5,785	3,296
199.08	5,443	433	199.60	5,792	3,354
199.09	5,449	488	199.61	5,798	3,412
199.10	5,456	542	199.62	5,805	3,470
199.11	5,463	597	199.63	5,812	3,528
199.12	5,470	652	199.64	5,818	3,586
199.13	5,476	706	199.65	5,825	3,645
199.14	5,483	761	199.66	5,832	3,703
199.15	5,490	816	199.67	5,839	3,761
199.16	5,496	871	199.68	5,845	3,820
199.17	5,503	926	199.69	5,852	3,878
199.18	5,510	981	199.70	5,859	3,937
199.19	5,516	1,036	199.71	5,865	3,995
199.20	5,523	1,091	199.72	5,872	4,054
199.21	5,530	1,146	199.73	5,879	4,113
199.22	5,537	1,202	199.74	5,886	4,172
199.23	5,543	1,257	199.75	5,892	4,230
199.24	5,550	1,313	199.76	5,899	4,289
199.25	5,557	1,368	199.77	5,906	4,348
199.26	5,563	1,424	199.78	5,912	4,408
199.27	5,570	1,479	199.79	5,919	4,467
199.28	5,577	1,535	199.80	5,926	4,526
199.29	5,584	1,591	199.81	5,933	4,585
199.30	5,590	1,647	199.82	5,939	4,645
199.31	5,597	1,703	199.83	5,946	4,704
199.32	5,604	1,759	199.84	5,953	4,763
199.33	5,610	1,815	199.85	5,959	4,823
199.34	5,617	1,871	199.86	5,966	4,883
199.35	5,624	1,927	199.87	5,973	4,942
199.36	5,631	1,984	199.88	5,979	5,002
199.37	5,637	2,040	199.89	5,986	5,062
199.38	5,644	2,096	199.90	5,993	5,122
199.39	5,651	2,153	199.91	6,000	5,182
199.40	5,657	2,209	199.92	6,006	5,242
199.41	5,664	2,266	199.93	6,013	5,302
199.42	5,671	2,323	199.94	6,020	5,362
199.43	5,678	2,379	199.95	6,026	5,422
199.44	5,684	2,436	199.96	6,033	5,483
199.45	5,691	2,493	199.97	6,040	5,543
199.46	5,698	2,550	199.98	6,047	5,603
199.47	5,704	2,607	199.99	6,053	5,664
199.48	5,711	2,664	200.00	6,060	5,725
199.49	5,718	2,721	200.01	6,067	5,785
199.50	5,725	2,778	200.02	6,074	5,846
199.51	5,731	2,836	200.03	6,081	5,907

Stage-Area-Storage for Pond B-6: Basin #6 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
200.04	6,088	5,967	200.56	6,453	9,228
200.05	6,095	6,028	200.57	6,460	9,293
200.06	6,102	6,089	200.58	6,467	9,357
200.07	6,109	6,150	200.59	6,474	9,422
200.08	6,116	6,212	200.60	6,481	9,487
200.09	6,123	6,273	200.61	6,488	9,552
200.10	6,130	6,334	200.62	6,495	9,616
200.11	6,137	6,395	200.63	6,502	9,681
200.12	6,144	6,457	200.64	6,509	9,746
200.13	6,151	6,518	200.65	6,516	9,812
200.14	6,158	6,580	200.66	6,523	9,877
200.15	6,165	6,641	200.67	6,530	9,942
200.16	6,172	6,703	200.68	6,537	10,007
200.17	6,179	6,765	200.69	6,544	10,073
200.18	6,186	6,827	200.70	6,551	10,138
200.19	6,193	6,889	200.71	6,558	10,204
200.20	6,200	6,951	200.72	6,565	10,269
200.21	6,207	7,013	200.73	6,572	10,335
200.22	6,214	7,075	200.74	6,579	10,401
200.23	6,221	7,137	200.75	6,586	10,467
200.24	6,228	7,199	200.76	6,593	10,533
200.25	6,235	7,261	200.77	6,600	10,599
200.26	6,242	7,324	200.78	6,607	10,665
200.27	6,249	7,386	200.79	6,614	10,731
200.28	6,256	7,449	200.80	6,621	10,797
200.29	6,263	7,511	200.81	6,628	10,863
200.30	6,270	7,574	200.82	6,635	10,929
200.31	6,277	7,637	200.83	6,642	10,996
200.32	6,284	7,700	200.84	6,649	11,062
200.33	6,291	7,762	200.85	6,656	11,129
200.34	6,298	7,825	200.86	6,663	11,195
200.35	6,305	7,888	200.87	6,670	11,262
200.36	6,312	7,952	200.88	6,677	11,329
200.37	6,319	8,015	200.89	6,684	11,396
200.38	6,326	8,078	200.90	6,691	11,462
200.39	6,333	8,141	200.91	6,698	11,529
200.40	6,340	8,205	200.92	6,705	11,596
200.41	6,347	8,268	200.93	6,712	11,663
200.42	6,354	8,332	200.94	6,719	11,731
200.43	6,361	8,395	200.95	6,726	11,798
200.44	6,368	8,459	200.96	6,733	11,865
200.45	6,375	8,522	200.97	6,740	11,932
200.46	6,382	8,586	200.98	6,747	12,000
200.47	6,389	8,650	200.99	6,754	12,067
200.48	6,396	8,714	201.00	6,761	12,135
200.49	6,403	8,778	201.01	6,768	12,203
200.50	6,411	8,842	201.02	6,776	12,270
200.51	6,418	8,906	201.03	6,783	12,338
200.52	6,425	8,970	201.04	6,790	12,406
200.53	6,432	9,035	201.05	6,797	12,474
200.54	6,439	9,099	201.06	6,805	12,542
200.55	6,446	9,164	201.07	6,812	12,610

Stage-Area-Storage for Pond B-6: Basin #6 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
201.08	6,819	12,678	201.60	7,198	16,323
201.09	6,827	12,746	201.61	7,206	16,395
201.10	6,834	12,815	201.62	7,213	16,467
201.11	6,841	12,883	201.63	7,220	16,539
201.12	6,848	12,952	201.64	7,228	16,611
201.13	6,856	13,020	201.65	7,235	16,684
201.14	6,863	13,089	201.66	7,242	16,756
201.15	6,870	13,157	201.67	7,249	16,828
201.16	6,878	13,226	201.68	7,257	16,901
201.17	6,885	13,295	201.69	7,264	16,974
201.18	6,892	13,364	201.70	7,271	17,046
201.19	6,900	13,433	201.71	7,279	17,119
201.20	6,907	13,502	201.72	7,286	17,192
201.21	6,914	13,571	201.73	7,293	17,265
201.22	6,921	13,640	201.74	7,300	17,338
201.23	6,929	13,709	201.75	7,308	17,411
201.24	6,936	13,779	201.76	7,315	17,484
201.25	6,943	13,848	201.77	7,322	17,557
201.26	6,951	13,918	201.78	7,330	17,630
201.27	6,958	13,987	201.79	7,337	17,704
201.28	6,965	14,057	201.80	7,344	17,777
201.29	6,972	14,126	201.81	7,351	17,851
201.30	6,980	14,196	201.82	7,359	17,924
201.31	6,987	14,266	201.83	7,366	17,998
201.32	6,994	14,336	201.84	7,373	18,071
201.33	7,002	14,406	201.85	7,381	18,145
201.34	7,009	14,476	201.86	7,388	18,219
201.35	7,016	14,546	201.87	7,395	18,293
201.36	7,023	14,616	201.88	7,403	18,367
201.37	7,031	14,686	201.89	7,410	18,441
201.38	7,038	14,757	201.90	7,417	18,515
201.39	7,045	14,827	201.91	7,424	18,589
201.40	7,053	14,898	201.92	7,432	18,664
201.41	7,060	14,968	201.93	7,439	18,738
201.42	7,067	15,039	201.94	7,446	18,812
201.43	7,074	15,110	201.95	7,454	18,887
201.44	7,082	15,180	201.96	7,461	18,961
201.45	7,089	15,251	201.97	7,468	19,036
201.46	7,096	15,322	201.98	7,475	19,111
201.47	7,104	15,393	201.99	7,483	19,186
201.48	7,111	15,464	202.00	7,490	19,261
201.49	7,118	15,535	202.01	7,498	19,335
201.50	7,126	15,607	202.02	7,505	19,410
201.51	7,133	15,678	202.03	7,513	19,486
201.52	7,140	15,749	202.04	7,520	19,561
201.53	7,147	15,821	202.05	7,528	19,636
201.54	7,155	15,892	202.06	7,535	19,711
201.55	7,162	15,964	202.07	7,543	19,787
201.56	7,169	16,035	202.08	7,551	19,862
201.57	7,177	16,107	202.09	7,558	19,938
201.58	7,184	16,179	202.10	7,566	20,013
201.59	7,191	16,251	202.11	7,573	20,089

Stage-Area-Storage for Pond B-6: Basin #6 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
202.12	7,581	20,165	202.64	7,974	24,209
202.13	7,588	20,241	202.65	7,982	24,289
202.14	7,596	20,317	202.66	7,990	24,369
202.15	7,604	20,393	202.67	7,997	24,449
202.16	7,611	20,469	202.68	8,005	24,529
202.17	7,619	20,545	202.69	8,012	24,609
202.18	7,626	20,621	202.70	8,020	24,689
202.19	7,634	20,697	202.71	8,027	24,769
202.20	7,641	20,774	202.72	8,035	24,850
202.21	7,649	20,850	202.73	8,043	24,930
202.22	7,657	20,927	202.74	8,050	25,010
202.23	7,664	21,003	202.75	8,058	25,091
202.24	7,672	21,080	202.76	8,065	25,172
202.25	7,679	21,157	202.77	8,073	25,252
202.26	7,687	21,233	202.78	8,080	25,333
202.27	7,694	21,310	202.79	8,088	25,414
202.28	7,702	21,387	202.80	8,096	25,495
202.29	7,710	21,464	202.81	8,103	25,576
202.30	7,717	21,542	202.82	8,111	25,657
202.31	7,725	21,619	202.83	8,118	25,738
202.32	7,732	21,696	202.84	8,126	25,819
202.33	7,740	21,773	202.85	8,133	25,900
202.34	7,747	21,851	202.86	8,141	25,982
202.35	7,755	21,928	202.87	8,149	26,063
202.36	7,763	22,006	202.88	8,156	26,145
202.37	7,770	22,084	202.89	8,164	26,226
202.38	7,778	22,161	202.90	8,171	26,308
202.39	7,785	22,239	202.91	8,179	26,390
202.40	7,793	22,317	202.92	8,186	26,472
202.41	7,800	22,395	202.93	8,194	26,554
202.42	7,808	22,473	202.94	8,202	26,636
202.43	7,816	22,551	202.95	8,209	26,718
202.44	7,823	22,629	202.96	8,217	26,800
202.45	7,831	22,708	202.97	8,224	26,882
202.46	7,838	22,786	202.98	8,232	26,964
202.47	7,846	22,864	202.99	8,239	27,047
202.48	7,853	22,943	203.00	8,247	27,129
202.49	7,861	23,021	203.01	8,255	27,212
202.50	7,869	23,100	203.02	8,263	27,294
202.51	7,876	23,179	203.03	8,271	27,377
202.52	7,884	23,258	203.04	8,278	27,460
202.53	7,891	23,337	203.05	8,286	27,542
202.54	7,899	23,415	203.06	8,294	27,625
202.55	7,906	23,494	203.07	8,302	27,708
202.56	7,914	23,574	203.08	8,310	27,791
202.57	7,921	23,653	203.09	8,318	27,874
202.58	7,929	23,732	203.10	8,325	27,958
202.59	7,937	23,811	203.11	8,333	28,041
202.60	7,944	23,891	203.12	8,341	28,124
202.61	7,952	23,970	203.13	8,349	28,208
202.62	7,959	24,050	203.14	8,357	28,291
202.63	7,967	24,129	203.15	8,365	28,375

Stage-Area-Storage for Pond B-6: Basin #6 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
203.16	8,373	28,459	203.68	8,781	32,918
203.17	8,380	28,542	203.69	8,789	33,006
203.18	8,388	28,626	203.70	8,796	33,094
203.19	8,396	28,710	203.71	8,804	33,182
203.20	8,404	28,794	203.72	8,812	33,270
203.21	8,412	28,878	203.73	8,820	33,358
203.22	8,420	28,962	203.74	8,828	33,447
203.23	8,428	29,047	203.75	8,836	33,535
203.24	8,435	29,131	203.76	8,844	33,623
203.25	8,443	29,215	203.77	8,851	33,712
203.26	8,451	29,300	203.78	8,859	33,800
203.27	8,459	29,384	203.79	8,867	33,889
203.28	8,467	29,469	203.80	8,875	33,978
203.29	8,475	29,554	203.81	8,883	34,067
203.30	8,483	29,638	203.82	8,891	34,155
203.31	8,490	29,723	203.83	8,899	34,244
203.32	8,498	29,808	203.84	8,906	34,333
203.33	8,506	29,893	203.85	8,914	34,423
203.34	8,514	29,978	203.86	8,922	34,512
203.35	8,522	30,064	203.87	8,930	34,601
203.36	8,530	30,149	203.88	8,938	34,690
203.37	8,537	30,234	203.89	8,946	34,780
203.38	8,545	30,320	203.90	8,954	34,869
203.39	8,553	30,405	203.91	8,961	34,959
203.40	8,561	30,491	203.92	8,969	35,048
203.41	8,569	30,576	203.93	8,977	35,138
203.42	8,577	30,662	203.94	8,985	35,228
203.43	8,585	30,748	203.95	8,993	35,318
203.44	8,592	30,834	203.96	9,001	35,408
203.45	8,600	30,920	203.97	9,008	35,498
203.46	8,608	31,006	203.98	9,016	35,588
203.47	8,616	31,092	203.99	9,024	35,678
203.48	8,624	31,178	204.00	9,032	35,769
203.49	8,632	31,264			
203.50	8,640	31,351			
203.51	8,647	31,437			
203.52	8,655	31,524			
203.53	8,663	31,610			
203.54	8,671	31,697			
203.55	8,679	31,784			
203.56	8,687	31,870			
203.57	8,694	31,957			
203.58	8,702	32,044			
203.59	8,710	32,131			
203.60	8,718	32,218			
203.61	8,726	32,306			
203.62	8,734	32,393			
203.63	8,742	32,480			
203.64	8,749	32,568			
203.65	8,757	32,655			
203.66	8,765	32,743			
203.67	8,773	32,831			

Summary for Pond B-7: Basin #7

Inflow Area = 1.564 ac, 62.85% Impervious, Inflow Depth = 3.96" for Current 10 yr event
 Inflow = 6.13 cfs @ 12.17 hrs, Volume= 0.517 af
 Outflow = 2.68 cfs @ 12.37 hrs, Volume= 0.435 af, Atten= 56%, Lag= 11.9 min
 Primary = 2.68 cfs @ 12.37 hrs, Volume= 0.435 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 208.33' @ 12.37 hrs Surf.Area= 7,732 sf Storage= 11,076 cf

Plug-Flow detention time= 403.4 min calculated for 0.434 af (84% of inflow)
 Center-of-Mass det. time= 333.3 min (1,106.5 - 773.1)

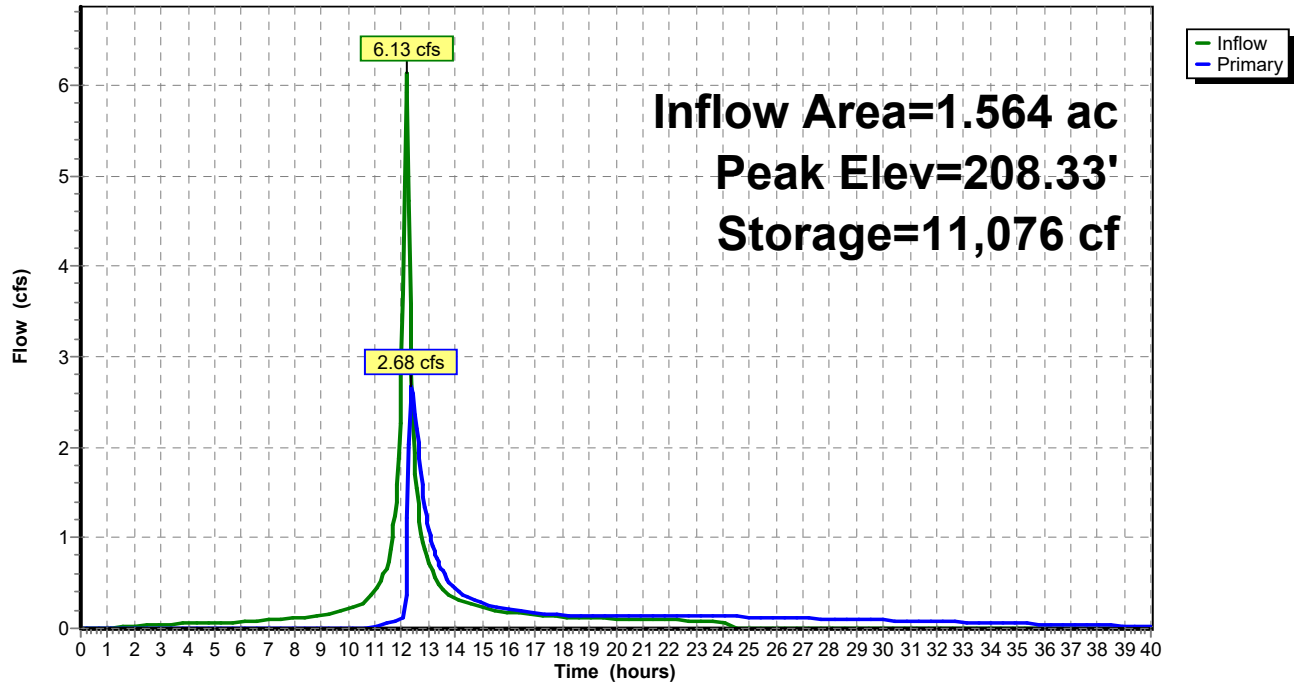
Volume	Invert	Avail.Storage	Storage Description
#1	206.47'	35,530 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
206.47	0	0	0
207.00	6,419	1,701	1,701
208.00	7,395	6,907	8,608
209.00	8,429	7,912	16,520
210.00	9,484	8,957	25,477
211.00	10,623	10,054	35,530

Device	Routing	Invert	Outlet Devices
#1	Primary	206.47'	18.0" Round Culvert L= 94.0' Ke= 0.500 Inlet / Outlet Invert= 206.47' / 206.00' S= 0.0050 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	207.17'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	207.99'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	208.86'	50.0' long + 3.0 ' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=2.65 cfs @ 12.37 hrs HW=208.32' (Free Discharge)

1=Culvert (Passes 2.65 cfs of 7.79 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.17 cfs @ 4.93 fps)
 3=Sharp-Crested Rectangular Weir (Weir Controls 2.49 cfs @ 1.89 fps)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-7: Basin #7**Hydrograph**

Stage-Discharge for Pond B-7: Basin #7

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
206.47	0.00	206.99	0.00	207.51	0.08	208.03	0.25
206.48	0.00	207.00	0.00	207.52	0.08	208.04	0.29
206.49	0.00	207.01	0.00	207.53	0.08	208.05	0.34
206.50	0.00	207.02	0.00	207.54	0.08	208.06	0.39
206.51	0.00	207.03	0.00	207.55	0.09	208.07	0.44
206.52	0.00	207.04	0.00	207.56	0.09	208.08	0.50
206.53	0.00	207.05	0.00	207.57	0.09	208.09	0.56
206.54	0.00	207.06	0.00	207.58	0.09	208.10	0.62
206.55	0.00	207.07	0.00	207.59	0.09	208.11	0.69
206.56	0.00	207.08	0.00	207.60	0.09	208.12	0.76
206.57	0.00	207.09	0.00	207.61	0.10	208.13	0.83
206.58	0.00	207.10	0.00	207.62	0.10	208.14	0.91
206.59	0.00	207.11	0.00	207.63	0.10	208.15	0.98
206.60	0.00	207.12	0.00	207.64	0.10	208.16	1.06
206.61	0.00	207.13	0.00	207.65	0.10	208.17	1.15
206.62	0.00	207.14	0.00	207.66	0.10	208.18	1.23
206.63	0.00	207.15	0.00	207.67	0.10	208.19	1.32
206.64	0.00	207.16	0.00	207.68	0.10	208.20	1.40
206.65	0.00	207.17	0.00	207.69	0.11	208.21	1.49
206.66	0.00	207.18	0.00	207.70	0.11	208.22	1.59
206.67	0.00	207.19	0.00	207.71	0.11	208.23	1.68
206.68	0.00	207.20	0.00	207.72	0.11	208.24	1.78
206.69	0.00	207.21	0.00	207.73	0.11	208.25	1.87
206.70	0.00	207.22	0.00	207.74	0.11	208.26	1.97
206.71	0.00	207.23	0.01	207.75	0.11	208.27	2.07
206.72	0.00	207.24	0.01	207.76	0.11	208.28	2.18
206.73	0.00	207.25	0.01	207.77	0.12	208.29	2.28
206.74	0.00	207.26	0.01	207.78	0.12	208.30	2.39
206.75	0.00	207.27	0.02	207.79	0.12	208.31	2.50
206.76	0.00	207.28	0.02	207.80	0.12	208.32	2.61
206.77	0.00	207.29	0.02	207.81	0.12	208.33	2.72
206.78	0.00	207.30	0.03	207.82	0.12	208.34	2.83
206.79	0.00	207.31	0.03	207.83	0.12	208.35	2.94
206.80	0.00	207.32	0.03	207.84	0.12	208.36	3.06
206.81	0.00	207.33	0.04	207.85	0.12	208.37	3.18
206.82	0.00	207.34	0.04	207.86	0.13	208.38	3.30
206.83	0.00	207.35	0.05	207.87	0.13	208.39	3.42
206.84	0.00	207.36	0.05	207.88	0.13	208.40	3.54
206.85	0.00	207.37	0.05	207.89	0.13	208.41	3.66
206.86	0.00	207.38	0.05	207.90	0.13	208.42	3.78
206.87	0.00	207.39	0.06	207.91	0.13	208.43	3.91
206.88	0.00	207.40	0.06	207.92	0.13	208.44	4.04
206.89	0.00	207.41	0.06	207.93	0.13	208.45	4.16
206.90	0.00	207.42	0.06	207.94	0.13	208.46	4.29
206.91	0.00	207.43	0.06	207.95	0.13	208.47	4.42
206.92	0.00	207.44	0.07	207.96	0.14	208.48	4.56
206.93	0.00	207.45	0.07	207.97	0.14	208.49	4.69
206.94	0.00	207.46	0.07	207.98	0.14	208.50	4.82
206.95	0.00	207.47	0.07	207.99	0.14	208.51	4.96
206.96	0.00	207.48	0.07	208.00	0.15	208.52	5.10
206.97	0.00	207.49	0.08	208.01	0.18	208.53	5.23
206.98	0.00	207.50	0.08	208.02	0.21	208.54	5.37

Stage-Discharge for Pond B-7: Basin #7 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
208.55	5.51	209.07	21.32	209.59	98.16	210.11	209.61
208.56	5.65	209.08	22.22	209.60	99.98	210.12	212.05
208.57	5.80	209.09	23.15	209.61	101.82	210.13	214.51
208.58	5.94	209.10	24.10	209.62	103.67	210.14	216.97
208.59	6.08	209.11	25.08	209.63	105.53	210.15	219.45
208.60	6.23	209.12	26.09	209.64	107.40	210.16	221.94
208.61	6.38	209.13	27.12	209.65	109.28	210.17	224.43
208.62	6.52	209.14	28.17	209.66	111.18	210.18	226.94
208.63	6.67	209.15	29.25	209.67	113.13	210.19	229.46
208.64	6.82	209.16	30.35	209.68	115.09	210.20	231.98
208.65	6.97	209.17	31.48	209.69	117.06	210.21	234.52
208.66	7.13	209.18	32.63	209.70	119.05	210.22	237.07
208.67	7.28	209.19	33.81	209.71	121.05	210.23	239.63
208.68	7.43	209.20	35.01	209.72	123.06	210.24	242.20
208.69	7.59	209.21	36.23	209.73	125.08	210.25	244.78
208.70	7.74	209.22	37.48	209.74	127.12	210.26	247.37
208.71	7.90	209.23	38.75	209.75	129.17	210.27	250.01
208.72	8.06	209.24	40.05	209.76	131.24	210.28	252.67
208.73	8.22	209.25	41.37	209.77	133.31	210.29	255.33
208.74	8.38	209.26	42.72	209.78	135.40	210.30	258.01
208.75	8.54	209.27	44.11	209.79	137.50	210.31	260.70
208.76	8.70	209.28	45.53	209.80	139.62	210.32	263.40
208.77	8.86	209.29	46.98	209.81	141.75	210.33	266.11
208.78	8.94	209.30	48.45	209.82	143.89	210.34	268.83
208.79	8.98	209.31	49.95	209.83	146.04	210.35	271.57
208.80	9.01	209.32	51.48	209.84	148.21	210.36	274.31
208.81	9.05	209.33	53.03	209.85	150.38	210.37	277.07
208.82	9.08	209.34	54.61	209.86	152.57	210.38	279.83
208.83	9.12	209.35	56.21	209.87	154.72	210.39	282.61
208.84	9.15	209.36	57.84	209.88	156.88	210.40	285.40
208.85	9.18	209.37	59.50	209.89	159.06	210.41	288.20
208.86	9.22	209.38	61.19	209.90	161.24	210.42	291.01
208.87	9.37	209.39	62.90	209.91	163.43	210.43	293.83
208.88	9.62	209.40	64.63	209.92	165.63	210.44	296.66
208.89	9.93	209.41	66.40	209.93	167.84	210.45	299.50
208.90	10.29	209.42	68.19	209.94	170.07	210.46	302.35
208.91	10.70	209.43	70.00	209.95	172.30	210.47	305.22
208.92	11.14	209.44	71.85	209.96	174.55	210.48	308.09
208.93	11.63	209.45	73.72	209.97	176.80	210.49	310.98
208.94	12.14	209.46	75.61	209.98	179.07	210.50	313.88
208.95	12.69	209.47	77.27	209.99	181.34	210.51	316.78
208.96	13.27	209.48	78.94	210.00	183.63	210.52	319.70
208.97	13.87	209.49	80.62	210.01	185.92	210.53	322.63
208.98	14.51	209.50	82.32	210.02	188.23	210.54	325.57
208.99	15.17	209.51	84.02	210.03	190.54	210.55	328.52
209.00	15.85	209.52	85.75	210.04	192.87	210.56	331.48
209.01	16.56	209.53	87.48	210.05	195.20	210.57	334.45
209.02	17.29	209.54	89.23	210.06	197.55	210.58	337.44
209.03	18.04	209.55	90.99	210.07	199.94	210.59	340.43
209.04	18.82	209.56	92.76	210.08	202.34	210.60	343.43
209.05	19.62	209.57	94.55	210.09	204.75	210.61	346.45
209.06	20.44	209.58	96.35	210.10	207.18	210.62	349.47

Stage-Discharge for Pond B-7: Basin #7 (continued)

Elevation (feet)	Primary (cfs)
210.63	352.51
210.64	355.55
210.65	358.61
210.66	361.68
210.67	364.76
210.68	367.84
210.69	370.94
210.70	374.05
210.71	377.17
210.72	380.30
210.73	383.45
210.74	386.60
210.75	389.76
210.76	392.93
210.77	396.12
210.78	399.31
210.79	402.51
210.80	405.73
210.81	408.95
210.82	412.19
210.83	415.43
210.84	418.69
210.85	421.96
210.86	425.23
210.87	428.58
210.88	431.94
210.89	435.32
210.90	438.70
210.91	442.09
210.92	445.50
210.93	448.92
210.94	452.35
210.95	455.79
210.96	459.24
210.97	462.70
210.98	466.18
210.99	469.66
211.00	473.16

Stage-Area-Storage for Pond B-7: Basin #7

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
206.47	0	0	206.99	6,298	1,637
206.48	121	1	207.00	6,419	1,701
206.49	242	2	207.01	6,429	1,765
206.50	363	5	207.02	6,439	1,830
206.51	484	10	207.03	6,448	1,894
206.52	606	15	207.04	6,458	1,959
206.53	727	22	207.05	6,468	2,023
206.54	848	30	207.06	6,478	2,088
206.55	969	39	207.07	6,487	2,153
206.56	1,090	49	207.08	6,497	2,218
206.57	1,211	61	207.09	6,507	2,283
206.58	1,332	73	207.10	6,517	2,348
206.59	1,453	87	207.11	6,526	2,413
206.60	1,574	102	207.12	6,536	2,478
206.61	1,696	119	207.13	6,546	2,544
206.62	1,817	136	207.14	6,556	2,609
206.63	1,938	155	207.15	6,565	2,675
206.64	2,059	175	207.16	6,575	2,741
206.65	2,180	196	207.17	6,585	2,806
206.66	2,301	219	207.18	6,595	2,872
206.67	2,422	242	207.19	6,604	2,938
206.68	2,543	267	207.20	6,614	3,004
206.69	2,664	293	207.21	6,624	3,071
206.70	2,786	320	207.22	6,634	3,137
206.71	2,907	349	207.23	6,643	3,203
206.72	3,028	378	207.24	6,653	3,270
206.73	3,149	409	207.25	6,663	3,336
206.74	3,270	441	207.26	6,673	3,403
206.75	3,391	475	207.27	6,683	3,470
206.76	3,512	509	207.28	6,692	3,537
206.77	3,633	545	207.29	6,702	3,604
206.78	3,755	582	207.30	6,712	3,671
206.79	3,876	620	207.31	6,722	3,738
206.80	3,997	659	207.32	6,731	3,805
206.81	4,118	700	207.33	6,741	3,872
206.82	4,239	742	207.34	6,751	3,940
206.83	4,360	785	207.35	6,761	4,007
206.84	4,481	829	207.36	6,770	4,075
206.85	4,602	874	207.37	6,780	4,143
206.86	4,723	921	207.38	6,790	4,211
206.87	4,845	969	207.39	6,800	4,279
206.88	4,966	1,018	207.40	6,809	4,347
206.89	5,087	1,068	207.41	6,819	4,415
206.90	5,208	1,120	207.42	6,829	4,483
206.91	5,329	1,172	207.43	6,839	4,551
206.92	5,450	1,226	207.44	6,848	4,620
206.93	5,571	1,281	207.45	6,858	4,688
206.94	5,692	1,338	207.46	6,868	4,757
206.95	5,813	1,395	207.47	6,878	4,826
206.96	5,935	1,454	207.48	6,887	4,895
206.97	6,056	1,514	207.49	6,897	4,964
206.98	6,177	1,575	207.50	6,907	5,033

Stage-Area-Storage for Pond B-7: Basin #7 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
207.51	6,917	5,102	208.03	7,426	8,830
207.52	6,927	5,171	208.04	7,436	8,905
207.53	6,936	5,240	208.05	7,447	8,979
207.54	6,946	5,310	208.06	7,457	9,054
207.55	6,956	5,379	208.07	7,467	9,128
207.56	6,966	5,449	208.08	7,478	9,203
207.57	6,975	5,518	208.09	7,488	9,278
207.58	6,985	5,588	208.10	7,498	9,353
207.59	6,995	5,658	208.11	7,509	9,428
207.60	7,005	5,728	208.12	7,519	9,503
207.61	7,014	5,798	208.13	7,529	9,578
207.62	7,024	5,868	208.14	7,540	9,653
207.63	7,034	5,939	208.15	7,550	9,729
207.64	7,044	6,009	208.16	7,560	9,804
207.65	7,053	6,080	208.17	7,571	9,880
207.66	7,063	6,150	208.18	7,581	9,956
207.67	7,073	6,221	208.19	7,591	10,032
207.68	7,083	6,292	208.20	7,602	10,108
207.69	7,092	6,362	208.21	7,612	10,184
207.70	7,102	6,433	208.22	7,622	10,260
207.71	7,112	6,505	208.23	7,633	10,336
207.72	7,122	6,576	208.24	7,643	10,413
207.73	7,131	6,647	208.25	7,654	10,489
207.74	7,141	6,718	208.26	7,664	10,566
207.75	7,151	6,790	208.27	7,674	10,642
207.76	7,161	6,861	208.28	7,685	10,719
207.77	7,171	6,933	208.29	7,695	10,796
207.78	7,180	7,005	208.30	7,705	10,873
207.79	7,190	7,077	208.31	7,716	10,950
207.80	7,200	7,149	208.32	7,726	11,027
207.81	7,210	7,221	208.33	7,736	11,105
207.82	7,219	7,293	208.34	7,747	11,182
207.83	7,229	7,365	208.35	7,757	11,260
207.84	7,239	7,437	208.36	7,767	11,337
207.85	7,249	7,510	208.37	7,778	11,415
207.86	7,258	7,582	208.38	7,788	11,493
207.87	7,268	7,655	208.39	7,798	11,571
207.88	7,278	7,728	208.40	7,809	11,649
207.89	7,288	7,800	208.41	7,819	11,727
207.90	7,297	7,873	208.42	7,829	11,805
207.91	7,307	7,946	208.43	7,840	11,883
207.92	7,317	8,020	208.44	7,850	11,962
207.93	7,327	8,093	208.45	7,860	12,040
207.94	7,336	8,166	208.46	7,871	12,119
207.95	7,346	8,240	208.47	7,881	12,198
207.96	7,356	8,313	208.48	7,891	12,277
207.97	7,366	8,387	208.49	7,902	12,356
207.98	7,375	8,460	208.50	7,912	12,435
207.99	7,385	8,534	208.51	7,922	12,514
208.00	7,395	8,608	208.52	7,933	12,593
208.01	7,405	8,682	208.53	7,943	12,673
208.02	7,416	8,756	208.54	7,953	12,752

Stage-Area-Storage for Pond B-7: Basin #7 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
208.55	7,964	12,832	209.07	8,503	17,113
208.56	7,974	12,911	209.08	8,513	17,198
208.57	7,984	12,991	209.09	8,524	17,283
208.58	7,995	13,071	209.10	8,534	17,368
208.59	8,005	13,151	209.11	8,545	17,454
208.60	8,015	13,231	209.12	8,556	17,539
208.61	8,026	13,311	209.13	8,566	17,625
208.62	8,036	13,392	209.14	8,577	17,710
208.63	8,046	13,472	209.15	8,587	17,796
208.64	8,057	13,553	209.16	8,598	17,882
208.65	8,067	13,633	209.17	8,608	17,968
208.66	8,077	13,714	209.18	8,619	18,054
208.67	8,088	13,795	209.19	8,629	18,141
208.68	8,098	13,876	209.20	8,640	18,227
208.69	8,108	13,957	209.21	8,651	18,313
208.70	8,119	14,038	209.22	8,661	18,400
208.71	8,129	14,119	209.23	8,672	18,487
208.72	8,139	14,200	209.24	8,682	18,573
208.73	8,150	14,282	209.25	8,693	18,660
208.74	8,160	14,363	209.26	8,703	18,747
208.75	8,171	14,445	209.27	8,714	18,834
208.76	8,181	14,527	209.28	8,724	18,922
208.77	8,191	14,609	209.29	8,735	19,009
208.78	8,202	14,691	209.30	8,746	19,096
208.79	8,212	14,773	209.31	8,756	19,184
208.80	8,222	14,855	209.32	8,767	19,271
208.81	8,233	14,937	209.33	8,777	19,359
208.82	8,243	15,020	209.34	8,788	19,447
208.83	8,253	15,102	209.35	8,798	19,535
208.84	8,264	15,185	209.36	8,809	19,623
208.85	8,274	15,267	209.37	8,819	19,711
208.86	8,284	15,350	209.38	8,830	19,799
208.87	8,295	15,433	209.39	8,840	19,888
208.88	8,305	15,516	209.40	8,851	19,976
208.89	8,315	15,599	209.41	8,862	20,065
208.90	8,326	15,682	209.42	8,872	20,153
208.91	8,336	15,766	209.43	8,883	20,242
208.92	8,346	15,849	209.44	8,893	20,331
208.93	8,357	15,933	209.45	8,904	20,420
208.94	8,367	16,016	209.46	8,914	20,509
208.95	8,377	16,100	209.47	8,925	20,598
208.96	8,388	16,184	209.48	8,935	20,687
208.97	8,398	16,268	209.49	8,946	20,777
208.98	8,408	16,352	209.50	8,957	20,866
208.99	8,419	16,436	209.51	8,967	20,956
209.00	8,429	16,520	209.52	8,978	21,046
209.01	8,440	16,604	209.53	8,988	21,136
209.02	8,450	16,689	209.54	8,999	21,226
209.03	8,461	16,773	209.55	9,009	21,316
209.04	8,471	16,858	209.56	9,020	21,406
209.05	8,482	16,943	209.57	9,030	21,496
209.06	8,492	17,028	209.58	9,041	21,586

Stage-Area-Storage for Pond B-7: Basin #7 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
209.59	9,051	21,677	210.11	9,609	26,527
209.60	9,062	21,767	210.12	9,621	26,623
209.61	9,073	21,858	210.13	9,632	26,719
209.62	9,083	21,949	210.14	9,643	26,815
209.63	9,094	22,040	210.15	9,655	26,912
209.64	9,104	22,131	210.16	9,666	27,009
209.65	9,115	22,222	210.17	9,678	27,105
209.66	9,125	22,313	210.18	9,689	27,202
209.67	9,136	22,404	210.19	9,700	27,299
209.68	9,146	22,496	210.20	9,712	27,396
209.69	9,157	22,587	210.21	9,723	27,493
209.70	9,167	22,679	210.22	9,735	27,591
209.71	9,178	22,771	210.23	9,746	27,688
209.72	9,189	22,862	210.24	9,757	27,785
209.73	9,199	22,954	210.25	9,769	27,883
209.74	9,210	23,046	210.26	9,780	27,981
209.75	9,220	23,139	210.27	9,792	28,079
209.76	9,231	23,231	210.28	9,803	28,177
209.77	9,241	23,323	210.29	9,814	28,275
209.78	9,252	23,416	210.30	9,826	28,373
209.79	9,262	23,508	210.31	9,837	28,471
209.80	9,273	23,601	210.32	9,848	28,570
209.81	9,284	23,694	210.33	9,860	28,668
209.82	9,294	23,787	210.34	9,871	28,767
209.83	9,305	23,879	210.35	9,883	28,866
209.84	9,315	23,973	210.36	9,894	28,965
209.85	9,326	24,066	210.37	9,905	29,064
209.86	9,336	24,159	210.38	9,917	29,163
209.87	9,347	24,253	210.39	9,928	29,262
209.88	9,357	24,346	210.40	9,940	29,361
209.89	9,368	24,440	210.41	9,951	29,461
209.90	9,379	24,533	210.42	9,962	29,560
209.91	9,389	24,627	210.43	9,974	29,660
209.92	9,400	24,721	210.44	9,985	29,760
209.93	9,410	24,815	210.45	9,997	29,860
209.94	9,421	24,909	210.46	10,008	29,960
209.95	9,431	25,004	210.47	10,019	30,060
209.96	9,442	25,098	210.48	10,031	30,160
209.97	9,452	25,192	210.49	10,042	30,260
209.98	9,463	25,287	210.50	10,054	30,361
209.99	9,473	25,382	210.51	10,065	30,462
210.00	9,484	25,477	210.52	10,076	30,562
210.01	9,495	25,571	210.53	10,088	30,663
210.02	9,507	25,666	210.54	10,099	30,764
210.03	9,518	25,762	210.55	10,110	30,865
210.04	9,530	25,857	210.56	10,122	30,966
210.05	9,541	25,952	210.57	10,133	31,067
210.06	9,552	26,048	210.58	10,145	31,169
210.07	9,564	26,143	210.59	10,156	31,270
210.08	9,575	26,239	210.60	10,167	31,372
210.09	9,587	26,335	210.61	10,179	31,474
210.10	9,598	26,431	210.62	10,190	31,576

Stage-Area-Storage for Pond B-7: Basin #7 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
210.63	10,202	31,677
210.64	10,213	31,780
210.65	10,224	31,882
210.66	10,236	31,984
210.67	10,247	32,086
210.68	10,259	32,189
210.69	10,270	32,292
210.70	10,281	32,394
210.71	10,293	32,497
210.72	10,304	32,600
210.73	10,315	32,703
210.74	10,327	32,807
210.75	10,338	32,910
210.76	10,350	33,013
210.77	10,361	33,117
210.78	10,372	33,221
210.79	10,384	33,324
210.80	10,395	33,428
210.81	10,407	33,532
210.82	10,418	33,636
210.83	10,429	33,741
210.84	10,441	33,845
210.85	10,452	33,949
210.86	10,464	34,054
210.87	10,475	34,159
210.88	10,486	34,263
210.89	10,498	34,368
210.90	10,509	34,473
210.91	10,520	34,579
210.92	10,532	34,684
210.93	10,543	34,789
210.94	10,555	34,895
210.95	10,566	35,000
210.96	10,577	35,106
210.97	10,589	35,212
210.98	10,600	35,318
210.99	10,612	35,424
211.00	10,623	35,530

Summary for Pond B-8: Basin #8

Inflow Area = 2.090 ac, 23.06% Impervious, Inflow Depth = 3.00" for Current 10 yr event
 Inflow = 6.58 cfs @ 12.17 hrs, Volume= 0.523 af
 Outflow = 0.90 cfs @ 12.95 hrs, Volume= 0.394 af, Atten= 86%, Lag= 46.5 min
 Primary = 0.90 cfs @ 12.95 hrs, Volume= 0.394 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 179.94' @ 12.95 hrs Surf.Area= 14,215 sf Storage= 12,935 cf

Plug-Flow detention time= 519.3 min calculated for 0.393 af (75% of inflow)
 Center-of-Mass det. time= 427.3 min (1,236.7 - 809.4)

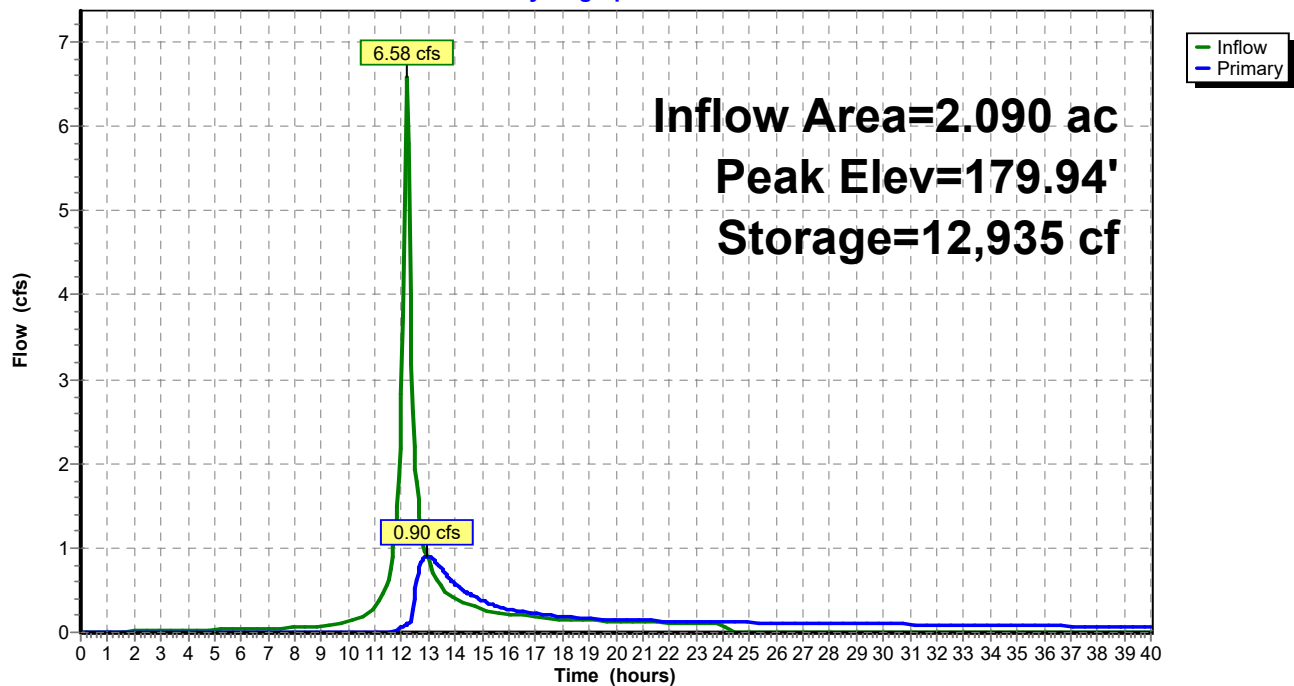
Volume	Invert	Avail.Storage	Storage Description
#1	179.00'	44,379 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
179.00	13,283	0	0
180.00	14,274	13,779	13,779
181.00	15,293	14,784	28,562
182.00	16,341	15,817	44,379

Device	Routing	Invert	Outlet Devices
#1	Primary	178.23'	18.0" Round Culvert L= 46.0' Ke= 0.500 Inlet / Outlet Invert= 178.23' / 178.00' S= 0.0050 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	179.17'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	179.79'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	180.83'	50.0' long + 3.0 ' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.89 cfs @ 12.95 hrs HW=179.94' (Free Discharge)

1=Culvert (Passes 0.89 cfs of 7.14 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.13 cfs @ 3.93 fps)
 3=Sharp-Crested Rectangular Weir(Weir Controls 0.76 cfs @ 1.27 fps)
 4=Broad-Crested Rectangular Weir(Controls 0.00 cfs)

Pond B-8: Basin #8**Hydrograph**

Stage-Discharge for Pond B-8: Basin #8

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
179.00	0.00	179.52	0.08	180.04	1.76	180.56	8.68
179.01	0.00	179.53	0.08	180.05	1.86	180.57	8.85
179.02	0.00	179.54	0.08	180.06	1.96	180.58	9.01
179.03	0.00	179.55	0.09	180.07	2.06	180.59	9.17
179.04	0.00	179.56	0.09	180.08	2.16	180.60	9.34
179.05	0.00	179.57	0.09	180.09	2.27	180.61	9.50
179.06	0.00	179.58	0.09	180.10	2.37	180.62	9.67
179.07	0.00	179.59	0.09	180.11	2.48	180.63	9.84
179.08	0.00	179.60	0.09	180.12	2.59	180.64	9.90
179.09	0.00	179.61	0.10	180.13	2.70	180.65	9.94
179.10	0.00	179.62	0.10	180.14	2.81	180.66	9.98
179.11	0.00	179.63	0.10	180.15	2.93	180.67	10.03
179.12	0.00	179.64	0.10	180.16	3.04	180.68	10.07
179.13	0.00	179.65	0.10	180.17	3.16	180.69	10.11
179.14	0.00	179.66	0.10	180.18	3.28	180.70	10.15
179.15	0.00	179.67	0.10	180.19	3.40	180.71	10.19
179.16	0.00	179.68	0.10	180.20	3.52	180.72	10.24
179.17	0.00	179.69	0.11	180.21	3.64	180.73	10.28
179.18	0.00	179.70	0.11	180.22	3.77	180.74	10.32
179.19	0.00	179.71	0.11	180.23	3.89	180.75	10.36
179.20	0.00	179.72	0.11	180.24	4.02	180.76	10.40
179.21	0.00	179.73	0.11	180.25	4.15	180.77	10.44
179.22	0.00	179.74	0.11	180.26	4.28	180.78	10.49
179.23	0.01	179.75	0.11	180.27	4.41	180.79	10.53
179.24	0.01	179.76	0.11	180.28	4.54	180.80	10.57
179.25	0.01	179.77	0.12	180.29	4.67	180.81	10.61
179.26	0.01	179.78	0.12	180.30	4.81	180.82	10.65
179.27	0.02	179.79	0.12	180.31	4.94	180.83	10.69
179.28	0.02	179.80	0.13	180.32	5.08	180.84	10.85
179.29	0.02	179.81	0.16	180.33	5.22	180.85	11.10
179.30	0.03	179.82	0.19	180.34	5.36	180.86	11.42
179.31	0.03	179.83	0.23	180.35	5.50	180.87	11.79
179.32	0.03	179.84	0.27	180.36	5.64	180.88	12.20
179.33	0.04	179.85	0.32	180.37	5.78	180.89	12.65
179.34	0.04	179.86	0.37	180.38	5.93	180.90	13.14
179.35	0.05	179.87	0.42	180.39	6.07	180.91	13.66
179.36	0.05	179.88	0.48	180.40	6.22	180.92	14.22
179.37	0.05	179.89	0.54	180.41	6.36	180.93	14.80
179.38	0.05	179.90	0.60	180.42	6.51	180.94	15.41
179.39	0.06	179.91	0.67	180.43	6.66	180.95	16.05
179.40	0.06	179.92	0.74	180.44	6.81	180.96	16.72
179.41	0.06	179.93	0.81	180.45	6.96	180.97	17.41
179.42	0.06	179.94	0.89	180.46	7.11	180.98	18.12
179.43	0.06	179.95	0.97	180.47	7.26	180.99	18.86
179.44	0.07	179.96	1.04	180.48	7.42	181.00	19.62
179.45	0.07	179.97	1.13	180.49	7.57	181.01	20.40
179.46	0.07	179.98	1.21	180.50	7.73	181.02	21.20
179.47	0.07	179.99	1.30	180.51	7.89	181.03	22.03
179.48	0.07	180.00	1.39	180.52	8.04	181.04	22.91
179.49	0.08	180.01	1.48	180.53	8.20	181.05	23.82
179.50	0.08	180.02	1.57	180.54	8.36	181.06	24.76
179.51	0.08	180.03	1.66	180.55	8.52	181.07	25.72

Stage-Discharge for Pond B-8: Basin #8 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
181.08	26.70	181.60	107.42
181.09	27.71	181.61	109.30
181.10	28.75	181.62	111.19
181.11	29.81	181.63	113.09
181.12	30.89	181.64	115.04
181.13	32.00	181.65	117.01
181.14	33.13	181.66	118.98
181.15	34.29	181.67	120.98
181.16	35.47	181.68	122.98
181.17	36.68	181.69	125.00
181.18	37.91	181.70	127.03
181.19	39.16	181.71	129.07
181.20	40.44	181.72	131.13
181.21	41.74	181.73	133.19
181.22	43.07	181.74	135.28
181.23	44.42	181.75	137.37
181.24	45.82	181.76	139.48
181.25	47.25	181.77	141.60
181.26	48.70	181.78	143.73
181.27	50.18	181.79	145.87
181.28	51.68	181.80	148.03
181.29	53.22	181.81	150.20
181.30	54.77	181.82	152.38
181.31	56.36	181.83	154.58
181.32	57.97	181.84	156.73
181.33	59.60	181.85	158.90
181.34	61.27	181.86	161.07
181.35	62.95	181.87	163.26
181.36	64.67	181.88	165.46
181.37	66.41	181.89	167.66
181.38	68.18	181.90	169.88
181.39	69.98	181.91	172.11
181.40	71.80	181.92	174.35
181.41	73.65	181.93	176.60
181.42	75.52	181.94	178.86
181.43	77.42	181.95	181.13
181.44	79.09	181.96	183.41
181.45	80.76	181.97	185.70
181.46	82.45	181.98	188.00
181.47	84.15	181.99	190.31
181.48	85.86	182.00	192.63
181.49	87.59		
181.50	89.33		
181.51	91.08		
181.52	92.84		
181.53	94.62		
181.54	96.41		
181.55	98.22		
181.56	100.03		
181.57	101.86		
181.58	103.70		
181.59	105.56		

Stage-Area-Storage for Pond B-8: Basin #8

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
179.00	13,283	0	179.52	13,798	7,041
179.01	13,293	133	179.53	13,808	7,179
179.02	13,303	266	179.54	13,818	7,317
179.03	13,313	399	179.55	13,828	7,456
179.04	13,323	532	179.56	13,838	7,594
179.05	13,333	665	179.57	13,848	7,732
179.06	13,342	799	179.58	13,858	7,871
179.07	13,352	932	179.59	13,868	8,009
179.08	13,362	1,066	179.60	13,878	8,148
179.09	13,372	1,199	179.61	13,888	8,287
179.10	13,382	1,333	179.62	13,897	8,426
179.11	13,392	1,467	179.63	13,907	8,565
179.12	13,402	1,601	179.64	13,917	8,704
179.13	13,412	1,735	179.65	13,927	8,843
179.14	13,422	1,869	179.66	13,937	8,983
179.15	13,432	2,004	179.67	13,947	9,122
179.16	13,442	2,138	179.68	13,957	9,262
179.17	13,451	2,272	179.69	13,967	9,401
179.18	13,461	2,407	179.70	13,977	9,541
179.19	13,471	2,542	179.71	13,987	9,681
179.20	13,481	2,676	179.72	13,997	9,821
179.21	13,491	2,811	179.73	14,006	9,961
179.22	13,501	2,946	179.74	14,016	10,101
179.23	13,511	3,081	179.75	14,026	10,241
179.24	13,521	3,216	179.76	14,036	10,381
179.25	13,531	3,352	179.77	14,046	10,522
179.26	13,541	3,487	179.78	14,056	10,662
179.27	13,551	3,623	179.79	14,066	10,803
179.28	13,560	3,758	179.80	14,076	10,944
179.29	13,570	3,894	179.81	14,086	11,084
179.30	13,580	4,029	179.82	14,096	11,225
179.31	13,590	4,165	179.83	14,106	11,366
179.32	13,600	4,301	179.84	14,115	11,507
179.33	13,610	4,437	179.85	14,125	11,649
179.34	13,620	4,573	179.86	14,135	11,790
179.35	13,630	4,710	179.87	14,145	11,931
179.36	13,640	4,846	179.88	14,155	12,073
179.37	13,650	4,983	179.89	14,165	12,214
179.38	13,660	5,119	179.90	14,175	12,356
179.39	13,669	5,256	179.91	14,185	12,498
179.40	13,679	5,392	179.92	14,195	12,640
179.41	13,689	5,529	179.93	14,205	12,782
179.42	13,699	5,666	179.94	14,215	12,924
179.43	13,709	5,803	179.95	14,224	13,066
179.44	13,719	5,940	179.96	14,234	13,208
179.45	13,729	6,078	179.97	14,244	13,351
179.46	13,739	6,215	179.98	14,254	13,493
179.47	13,749	6,352	179.99	14,264	13,636
179.48	13,759	6,490	180.00	14,274	13,779
179.49	13,769	6,628	180.01	14,284	13,921
179.50	13,779	6,765	180.02	14,294	14,064
179.51	13,788	6,903	180.03	14,305	14,207

Stage-Area-Storage for Pond B-8: Basin #8 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
180.04	14,315	14,350	180.56	14,845	21,932
180.05	14,325	14,493	180.57	14,855	22,080
180.06	14,335	14,637	180.58	14,865	22,229
180.07	14,345	14,780	180.59	14,875	22,378
180.08	14,356	14,924	180.60	14,885	22,526
180.09	14,366	15,067	180.61	14,896	22,675
180.10	14,376	15,211	180.62	14,906	22,824
180.11	14,386	15,355	180.63	14,916	22,973
180.12	14,396	15,499	180.64	14,926	23,123
180.13	14,406	15,643	180.65	14,936	23,272
180.14	14,417	15,787	180.66	14,947	23,421
180.15	14,427	15,931	180.67	14,957	23,571
180.16	14,437	16,075	180.68	14,967	23,720
180.17	14,447	16,220	180.69	14,977	23,870
180.18	14,457	16,364	180.70	14,987	24,020
180.19	14,468	16,509	180.71	14,997	24,170
180.20	14,478	16,654	180.72	15,008	24,320
180.21	14,488	16,799	180.73	15,018	24,470
180.22	14,498	16,943	180.74	15,028	24,620
180.23	14,508	17,088	180.75	15,038	24,771
180.24	14,519	17,234	180.76	15,048	24,921
180.25	14,529	17,379	180.77	15,059	25,072
180.26	14,539	17,524	180.78	15,069	25,222
180.27	14,549	17,670	180.79	15,079	25,373
180.28	14,559	17,815	180.80	15,089	25,524
180.29	14,570	17,961	180.81	15,099	25,675
180.30	14,580	18,107	180.82	15,110	25,826
180.31	14,590	18,252	180.83	15,120	25,977
180.32	14,600	18,398	180.84	15,130	26,128
180.33	14,610	18,544	180.85	15,140	26,280
180.34	14,620	18,691	180.86	15,150	26,431
180.35	14,631	18,837	180.87	15,161	26,583
180.36	14,641	18,983	180.88	15,171	26,734
180.37	14,651	19,130	180.89	15,181	26,886
180.38	14,661	19,276	180.90	15,191	27,038
180.39	14,671	19,423	180.91	15,201	27,190
180.40	14,682	19,570	180.92	15,211	27,342
180.41	14,692	19,716	180.93	15,222	27,494
180.42	14,702	19,863	180.94	15,232	27,646
180.43	14,712	20,011	180.95	15,242	27,799
180.44	14,722	20,158	180.96	15,252	27,951
180.45	14,733	20,305	180.97	15,262	28,104
180.46	14,743	20,452	180.98	15,273	28,256
180.47	14,753	20,600	180.99	15,283	28,409
180.48	14,763	20,747	181.00	15,293	28,562
180.49	14,773	20,895	181.01	15,303	28,715
180.50	14,784	21,043	181.02	15,314	28,868
180.51	14,794	21,191	181.03	15,324	29,021
180.52	14,804	21,339	181.04	15,335	29,175
180.53	14,814	21,487	181.05	15,345	29,328
180.54	14,824	21,635	181.06	15,356	29,481
180.55	14,834	21,783	181.07	15,366	29,635

Stage-Area-Storage for Pond B-8: Basin #8 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
181.08	15,377	29,789	181.60	15,922	37,926
181.09	15,387	29,943	181.61	15,932	38,086
181.10	15,398	30,097	181.62	15,943	38,245
181.11	15,408	30,251	181.63	15,953	38,405
181.12	15,419	30,405	181.64	15,964	38,564
181.13	15,429	30,559	181.65	15,974	38,724
181.14	15,440	30,713	181.66	15,985	38,884
181.15	15,450	30,868	181.67	15,995	39,044
181.16	15,461	31,022	181.68	16,006	39,204
181.17	15,471	31,177	181.69	16,016	39,364
181.18	15,482	31,332	181.70	16,027	39,524
181.19	15,492	31,487	181.71	16,037	39,684
181.20	15,503	31,642	181.72	16,048	39,845
181.21	15,513	31,797	181.73	16,058	40,005
181.22	15,524	31,952	181.74	16,069	40,166
181.23	15,534	32,107	181.75	16,079	40,327
181.24	15,545	32,263	181.76	16,089	40,487
181.25	15,555	32,418	181.77	16,100	40,648
181.26	15,565	32,574	181.78	16,110	40,809
181.27	15,576	32,729	181.79	16,121	40,970
181.28	15,586	32,885	181.80	16,131	41,132
181.29	15,597	33,041	181.81	16,142	41,293
181.30	15,607	33,197	181.82	16,152	41,455
181.31	15,618	33,353	181.83	16,163	41,616
181.32	15,628	33,509	181.84	16,173	41,778
181.33	15,639	33,666	181.85	16,184	41,940
181.34	15,649	33,822	181.86	16,194	42,102
181.35	15,660	33,979	181.87	16,205	42,264
181.36	15,670	34,135	181.88	16,215	42,426
181.37	15,681	34,292	181.89	16,226	42,588
181.38	15,691	34,449	181.90	16,236	42,750
181.39	15,702	34,606	181.91	16,247	42,913
181.40	15,712	34,763	181.92	16,257	43,075
181.41	15,723	34,920	181.93	16,268	43,238
181.42	15,733	35,077	181.94	16,278	43,400
181.43	15,744	35,235	181.95	16,289	43,563
181.44	15,754	35,392	181.96	16,299	43,726
181.45	15,765	35,550	181.97	16,310	43,889
181.46	15,775	35,708	181.98	16,320	44,052
181.47	15,786	35,865	181.99	16,331	44,216
181.48	15,796	36,023	182.00	16,341	44,379
181.49	15,807	36,181			
181.50	15,817	36,340			
181.51	15,827	36,498			
181.52	15,838	36,656			
181.53	15,848	36,814			
181.54	15,859	36,973			
181.55	15,869	37,132			
181.56	15,880	37,290			
181.57	15,890	37,449			
181.58	15,901	37,608			
181.59	15,911	37,767			

Summary for Pond B-9: Basin #9

Inflow Area = 1.503 ac, 52.63% Impervious, Inflow Depth = 3.72" for Current 10 yr event
 Inflow = 5.59 cfs @ 12.17 hrs, Volume= 0.466 af
 Outflow = 0.88 cfs @ 12.76 hrs, Volume= 0.344 af, Atten= 84%, Lag= 35.5 min
 Primary = 0.88 cfs @ 12.76 hrs, Volume= 0.344 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 180.08' @ 12.76 hrs Surf.Area= 11,779 sf Storage= 12,128 cf

Plug-Flow detention time= 548.2 min calculated for 0.343 af (74% of inflow)
 Center-of-Mass det. time= 455.1 min (1,235.8 - 780.7)

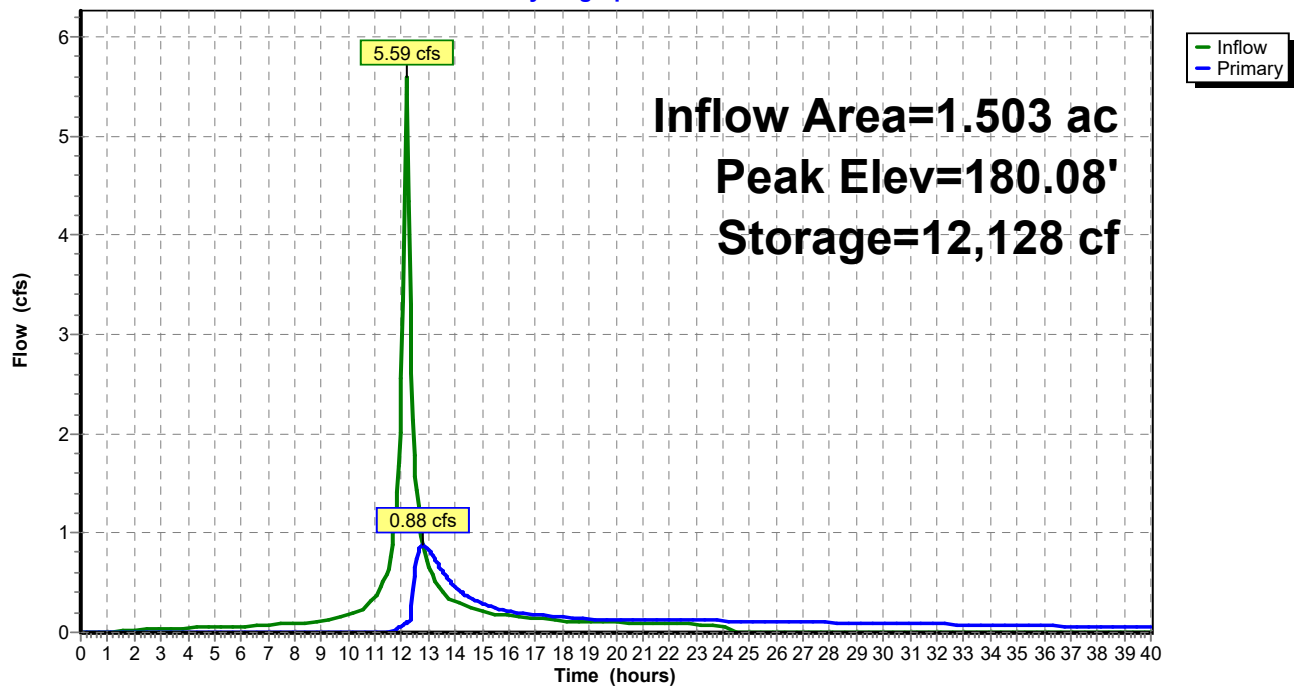
Volume	Invert	Avail.Storage	Storage Description
#1	179.00'	36,641 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
179.00	10,720	0	0
180.00	11,700	11,210	11,210
181.00	12,708	12,204	23,414
182.00	13,745	13,227	36,641

Device	Routing	Invert	Outlet Devices
#1	Primary	178.23'	18.0" Round Culvert L= 45.0' Ke= 0.500 Inlet / Outlet Invert= 178.23' / 178.00' S= 0.0051 ' / Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	179.30'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	179.93'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	181.95'	50.0' long + 3.0 ' / SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.87 cfs @ 12.76 hrs HW=180.08' (Free Discharge)

1=Culvert (Passes 0.87 cfs of 7.74 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.13 cfs @ 3.95 fps)
 3=Sharp-Crested Rectangular Weir(Weir Controls 0.74 cfs @ 1.26 fps)
 4=Broad-Crested Rectangular Weir(Controls 0.00 cfs)

Pond B-9: Basin #9**Hydrograph**

Stage-Discharge for Pond B-9: Basin #9

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
179.00	0.00	179.52	0.06	180.04	0.61	180.56	6.51
179.01	0.00	179.53	0.06	180.05	0.67	180.57	6.66
179.02	0.00	179.54	0.06	180.06	0.74	180.58	6.81
179.03	0.00	179.55	0.06	180.07	0.81	180.59	6.96
179.04	0.00	179.56	0.06	180.08	0.89	180.60	7.11
179.05	0.00	179.57	0.07	180.09	0.97	180.61	7.27
179.06	0.00	179.58	0.07	180.10	1.05	180.62	7.42
179.07	0.00	179.59	0.07	180.11	1.13	180.63	7.57
179.08	0.00	179.60	0.07	180.12	1.21	180.64	7.73
179.09	0.00	179.61	0.07	180.13	1.30	180.65	7.89
179.10	0.00	179.62	0.08	180.14	1.39	180.66	8.04
179.11	0.00	179.63	0.08	180.15	1.48	180.67	8.20
179.12	0.00	179.64	0.08	180.16	1.57	180.68	8.36
179.13	0.00	179.65	0.08	180.17	1.66	180.69	8.52
179.14	0.00	179.66	0.08	180.18	1.76	180.70	8.68
179.15	0.00	179.67	0.08	180.19	1.86	180.71	8.85
179.16	0.00	179.68	0.09	180.20	1.96	180.72	9.01
179.17	0.00	179.69	0.09	180.21	2.06	180.73	9.17
179.18	0.00	179.70	0.09	180.22	2.16	180.74	9.34
179.19	0.00	179.71	0.09	180.23	2.27	180.75	9.50
179.20	0.00	179.72	0.09	180.24	2.37	180.76	9.67
179.21	0.00	179.73	0.09	180.25	2.48	180.77	9.84
179.22	0.00	179.74	0.10	180.26	2.59	180.78	10.01
179.23	0.00	179.75	0.10	180.27	2.70	180.79	10.18
179.24	0.00	179.76	0.10	180.28	2.81	180.80	10.35
179.25	0.00	179.77	0.10	180.29	2.93	180.81	10.52
179.26	0.00	179.78	0.10	180.30	3.04	180.82	10.69
179.27	0.00	179.79	0.10	180.31	3.16	180.83	10.73
179.28	0.00	179.80	0.10	180.32	3.28	180.84	10.77
179.29	0.00	179.81	0.10	180.33	3.40	180.85	10.81
179.30	0.00	179.82	0.11	180.34	3.52	180.86	10.85
179.31	0.00	179.83	0.11	180.35	3.65	180.87	10.89
179.32	0.00	179.84	0.11	180.36	3.77	180.88	10.93
179.33	0.00	179.85	0.11	180.37	3.89	180.89	10.97
179.34	0.00	179.86	0.11	180.38	4.02	180.90	11.01
179.35	0.00	179.87	0.11	180.39	4.15	180.91	11.05
179.36	0.01	179.88	0.11	180.40	4.28	180.92	11.09
179.37	0.01	179.89	0.11	180.41	4.41	180.93	11.13
179.38	0.01	179.90	0.12	180.42	4.54	180.94	11.17
179.39	0.01	179.91	0.12	180.43	4.68	180.95	11.20
179.40	0.02	179.92	0.12	180.44	4.81	180.96	11.24
179.41	0.02	179.93	0.12	180.45	4.95	180.97	11.28
179.42	0.02	179.94	0.13	180.46	5.08	180.98	11.32
179.43	0.03	179.95	0.16	180.47	5.22	180.99	11.36
179.44	0.03	179.96	0.19	180.48	5.36	181.00	11.40
179.45	0.03	179.97	0.23	180.49	5.50	181.01	11.43
179.46	0.04	179.98	0.27	180.50	5.64	181.02	11.47
179.47	0.04	179.99	0.32	180.51	5.78	181.03	11.51
179.48	0.05	180.00	0.37	180.52	5.93	181.04	11.55
179.49	0.05	180.01	0.42	180.53	6.07	181.05	11.58
179.50	0.05	180.02	0.48	180.54	6.22	181.06	11.62
179.51	0.05	180.03	0.54	180.55	6.36	181.07	11.66

Stage-Discharge for Pond B-9: Basin #9 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
181.08	11.70	181.60	13.48
181.09	11.73	181.61	13.52
181.10	11.77	181.62	13.55
181.11	11.81	181.63	13.58
181.12	11.84	181.64	13.61
181.13	11.88	181.65	13.64
181.14	11.92	181.66	13.67
181.15	11.95	181.67	13.71
181.16	11.99	181.68	13.74
181.17	12.02	181.69	13.77
181.18	12.06	181.70	13.80
181.19	12.10	181.71	13.83
181.20	12.13	181.72	13.86
181.21	12.17	181.73	13.89
181.22	12.20	181.74	13.93
181.23	12.24	181.75	13.96
181.24	12.27	181.76	13.99
181.25	12.31	181.77	14.02
181.26	12.34	181.78	14.05
181.27	12.38	181.79	14.08
181.28	12.41	181.80	14.11
181.29	12.45	181.81	14.14
181.30	12.48	181.82	14.17
181.31	12.52	181.83	14.20
181.32	12.55	181.84	14.23
181.33	12.59	181.85	14.26
181.34	12.62	181.86	14.29
181.35	12.66	181.87	14.32
181.36	12.69	181.88	14.35
181.37	12.72	181.89	14.38
181.38	12.76	181.90	14.41
181.39	12.79	181.91	14.44
181.40	12.83	181.92	14.47
181.41	12.86	181.93	14.50
181.42	12.89	181.94	14.53
181.43	12.93	181.95	14.56
181.44	12.96	181.96	14.71
181.45	12.99	181.97	14.95
181.46	13.03	181.98	15.26
181.47	13.06	181.99	15.62
181.48	13.09	182.00	16.02
181.49	13.13		
181.50	13.16		
181.51	13.19		
181.52	13.22		
181.53	13.26		
181.54	13.29		
181.55	13.32		
181.56	13.35		
181.57	13.39		
181.58	13.42		
181.59	13.45		

Stage-Area-Storage for Pond B-9: Basin #9

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
179.00	10,720	0	179.52	11,230	5,707
179.01	10,730	107	179.53	11,239	5,819
179.02	10,740	215	179.54	11,249	5,932
179.03	10,749	322	179.55	11,259	6,044
179.04	10,759	430	179.56	11,269	6,157
179.05	10,769	537	179.57	11,279	6,270
179.06	10,779	645	179.58	11,288	6,382
179.07	10,789	753	179.59	11,298	6,495
179.08	10,798	861	179.60	11,308	6,608
179.09	10,808	969	179.61	11,318	6,722
179.10	10,818	1,077	179.62	11,328	6,835
179.11	10,828	1,185	179.63	11,337	6,948
179.12	10,838	1,293	179.64	11,347	7,062
179.13	10,847	1,402	179.65	11,357	7,175
179.14	10,857	1,510	179.66	11,367	7,289
179.15	10,867	1,619	179.67	11,377	7,402
179.16	10,877	1,728	179.68	11,386	7,516
179.17	10,887	1,837	179.69	11,396	7,630
179.18	10,896	1,945	179.70	11,406	7,744
179.19	10,906	2,054	179.71	11,416	7,858
179.20	10,916	2,164	179.72	11,426	7,972
179.21	10,926	2,273	179.73	11,435	8,087
179.22	10,936	2,382	179.74	11,445	8,201
179.23	10,945	2,492	179.75	11,455	8,316
179.24	10,955	2,601	179.76	11,465	8,430
179.25	10,965	2,711	179.77	11,475	8,545
179.26	10,975	2,820	179.78	11,484	8,660
179.27	10,985	2,930	179.79	11,494	8,775
179.28	10,994	3,040	179.80	11,504	8,890
179.29	11,004	3,150	179.81	11,514	9,005
179.30	11,014	3,260	179.82	11,524	9,120
179.31	11,024	3,370	179.83	11,533	9,235
179.32	11,034	3,481	179.84	11,543	9,351
179.33	11,043	3,591	179.85	11,553	9,466
179.34	11,053	3,701	179.86	11,563	9,582
179.35	11,063	3,812	179.87	11,573	9,697
179.36	11,073	3,923	179.88	11,582	9,813
179.37	11,083	4,033	179.89	11,592	9,929
179.38	11,092	4,144	179.90	11,602	10,045
179.39	11,102	4,255	179.91	11,612	10,161
179.40	11,112	4,366	179.92	11,622	10,277
179.41	11,122	4,478	179.93	11,631	10,393
179.42	11,132	4,589	179.94	11,641	10,510
179.43	11,141	4,700	179.95	11,651	10,626
179.44	11,151	4,812	179.96	11,661	10,743
179.45	11,161	4,923	179.97	11,671	10,859
179.46	11,171	5,035	179.98	11,680	10,976
179.47	11,181	5,147	179.99	11,690	11,093
179.48	11,190	5,258	180.00	11,700	11,210
179.49	11,200	5,370	180.01	11,710	11,327
179.50	11,210	5,483	180.02	11,720	11,444
179.51	11,220	5,595	180.03	11,730	11,561

Stage-Area-Storage for Pond B-9: Basin #9 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
180.04	11,740	11,679	180.56	12,264	17,920
180.05	11,750	11,796	180.57	12,275	18,043
180.06	11,760	11,914	180.58	12,285	18,166
180.07	11,771	12,031	180.59	12,295	18,288
180.08	11,781	12,149	180.60	12,305	18,411
180.09	11,791	12,267	180.61	12,315	18,535
180.10	11,801	12,385	180.62	12,325	18,658
180.11	11,811	12,503	180.63	12,335	18,781
180.12	11,821	12,621	180.64	12,345	18,904
180.13	11,831	12,740	180.65	12,355	19,028
180.14	11,841	12,858	180.66	12,365	19,152
180.15	11,851	12,976	180.67	12,375	19,275
180.16	11,861	13,095	180.68	12,385	19,399
180.17	11,871	13,214	180.69	12,396	19,523
180.18	11,881	13,332	180.70	12,406	19,647
180.19	11,892	13,451	180.71	12,416	19,771
180.20	11,902	13,570	180.72	12,426	19,895
180.21	11,912	13,689	180.73	12,436	20,020
180.22	11,922	13,808	180.74	12,446	20,144
180.23	11,932	13,928	180.75	12,456	20,269
180.24	11,942	14,047	180.76	12,466	20,393
180.25	11,952	14,167	180.77	12,476	20,518
180.26	11,962	14,286	180.78	12,486	20,643
180.27	11,972	14,406	180.79	12,496	20,768
180.28	11,982	14,526	180.80	12,506	20,893
180.29	11,992	14,645	180.81	12,516	21,018
180.30	12,002	14,765	180.82	12,527	21,143
180.31	12,012	14,885	180.83	12,537	21,268
180.32	12,023	15,006	180.84	12,547	21,394
180.33	12,033	15,126	180.85	12,557	21,519
180.34	12,043	15,246	180.86	12,567	21,645
180.35	12,053	15,367	180.87	12,577	21,770
180.36	12,063	15,487	180.88	12,587	21,896
180.37	12,073	15,608	180.89	12,597	22,022
180.38	12,083	15,729	180.90	12,607	22,148
180.39	12,093	15,850	180.91	12,617	22,274
180.40	12,103	15,971	180.92	12,627	22,401
180.41	12,113	16,092	180.93	12,637	22,527
180.42	12,123	16,213	180.94	12,648	22,653
180.43	12,133	16,334	180.95	12,658	22,780
180.44	12,144	16,456	180.96	12,668	22,906
180.45	12,154	16,577	180.97	12,678	23,033
180.46	12,164	16,699	180.98	12,688	23,160
180.47	12,174	16,820	180.99	12,698	23,287
180.48	12,184	16,942	181.00	12,708	23,414
180.49	12,194	17,064	181.01	12,718	23,541
180.50	12,204	17,186	181.02	12,729	23,668
180.51	12,214	17,308	181.03	12,739	23,796
180.52	12,224	17,430	181.04	12,749	23,923
180.53	12,234	17,553	181.05	12,760	24,051
180.54	12,244	17,675	181.06	12,770	24,178
180.55	12,254	17,797	181.07	12,781	24,306

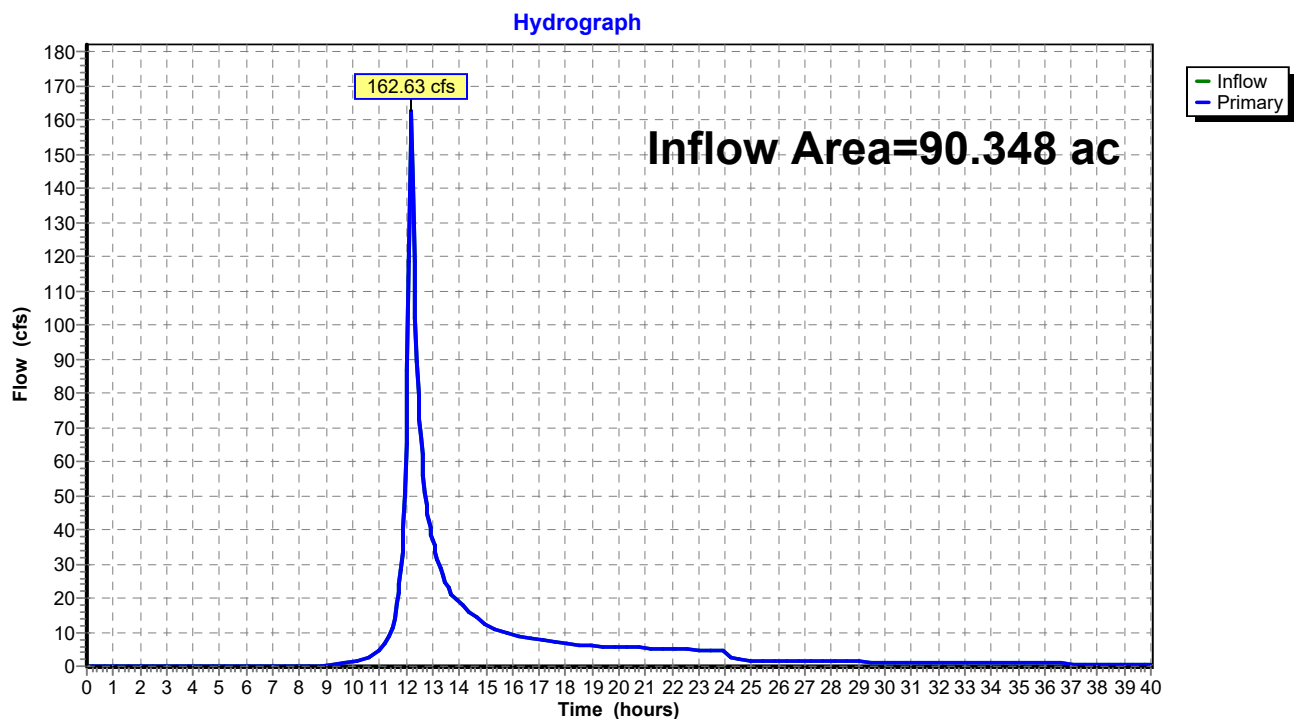
Stage-Area-Storage for Pond B-9: Basin #9 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
181.08	12,791	24,434	181.60	13,330	31,225
181.09	12,801	24,562	181.61	13,341	31,359
181.10	12,812	24,690	181.62	13,351	31,492
181.11	12,822	24,818	181.63	13,361	31,626
181.12	12,832	24,946	181.64	13,372	31,759
181.13	12,843	25,075	181.65	13,382	31,893
181.14	12,853	25,203	181.66	13,392	32,027
181.15	12,864	25,332	181.67	13,403	32,161
181.16	12,874	25,461	181.68	13,413	32,295
181.17	12,884	25,589	181.69	13,424	32,429
181.18	12,895	25,718	181.70	13,434	32,564
181.19	12,905	25,847	181.71	13,444	32,698
181.20	12,915	25,976	181.72	13,455	32,833
181.21	12,926	26,106	181.73	13,465	32,967
181.22	12,936	26,235	181.74	13,475	33,102
181.23	12,947	26,364	181.75	13,486	33,237
181.24	12,957	26,494	181.76	13,496	33,372
181.25	12,967	26,623	181.77	13,506	33,507
181.26	12,978	26,753	181.78	13,517	33,642
181.27	12,988	26,883	181.79	13,527	33,777
181.28	12,998	27,013	181.80	13,538	33,912
181.29	13,009	27,143	181.81	13,548	34,048
181.30	13,019	27,273	181.82	13,558	34,183
181.31	13,029	27,403	181.83	13,569	34,319
181.32	13,040	27,534	181.84	13,579	34,455
181.33	13,050	27,664	181.85	13,589	34,590
181.34	13,061	27,795	181.86	13,600	34,726
181.35	13,071	27,925	181.87	13,610	34,862
181.36	13,081	28,056	181.88	13,621	34,999
181.37	13,092	28,187	181.89	13,631	35,135
181.38	13,102	28,318	181.90	13,641	35,271
181.39	13,112	28,449	181.91	13,652	35,408
181.40	13,123	28,580	181.92	13,662	35,544
181.41	13,133	28,711	181.93	13,672	35,681
181.42	13,144	28,843	181.94	13,683	35,818
181.43	13,154	28,974	181.95	13,693	35,955
181.44	13,164	29,106	181.96	13,704	36,092
181.45	13,175	29,238	181.97	13,714	36,229
181.46	13,185	29,369	181.98	13,724	36,366
181.47	13,195	29,501	181.99	13,735	36,503
181.48	13,206	29,633	182.00	13,745	36,641
181.49	13,216	29,765			
181.50	13,227	29,898			
181.51	13,237	30,030			
181.52	13,247	30,162			
181.53	13,258	30,295			
181.54	13,268	30,428			
181.55	13,278	30,560			
181.56	13,289	30,693			
181.57	13,299	30,826			
181.58	13,309	30,959			
181.59	13,320	31,092			

Summary for Link PDA-1: Proposed Drainage Area #1

Inflow Area = 90.348 ac, 16.68% Impervious, Inflow Depth > 2.41" for Current 10 yr event
Inflow = 162.63 cfs @ 12.19 hrs, Volume= 18.167 af
Primary = 162.63 cfs @ 12.19 hrs, Volume= 18.167 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs

Link PDA-1: Proposed Drainage Area #1

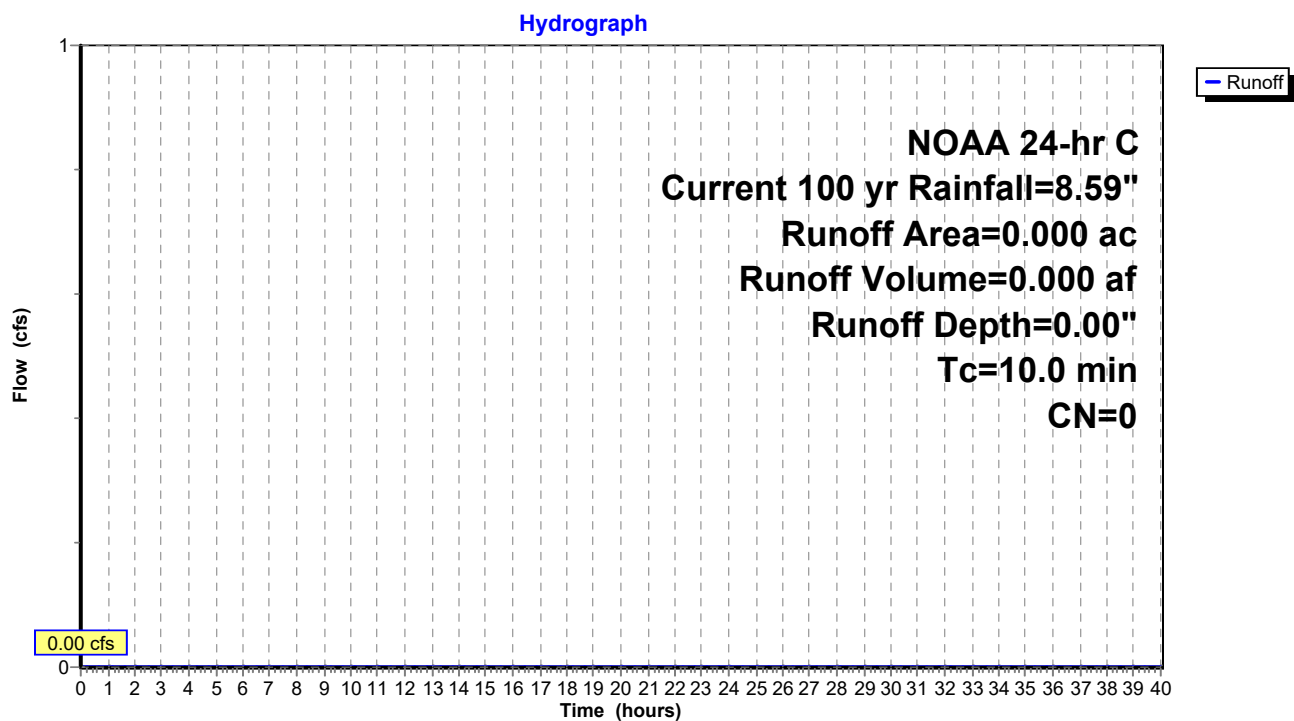
Summary for Subcatchment 1I: PDA-1 (impervious)

Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Depth= 0.00"
 Routed to Pond B-1 : Basin #1

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 100 yr Rainfall=8.59"

Area (ac)	CN	Description
* 0.000	98	Pavement, HSG C
* 0.000	98	Concrete, HSG C
0.000	0	Weighted Average

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 1I: PDA-1 (impervious)

Summary for Subcatchment 1P: PDA-1 (pervious)

Runoff = 5.31 cfs @ 12.17 hrs, Volume= 0.404 af, Depth= 5.46"
 Routed to Pond B-1 : Basin #1

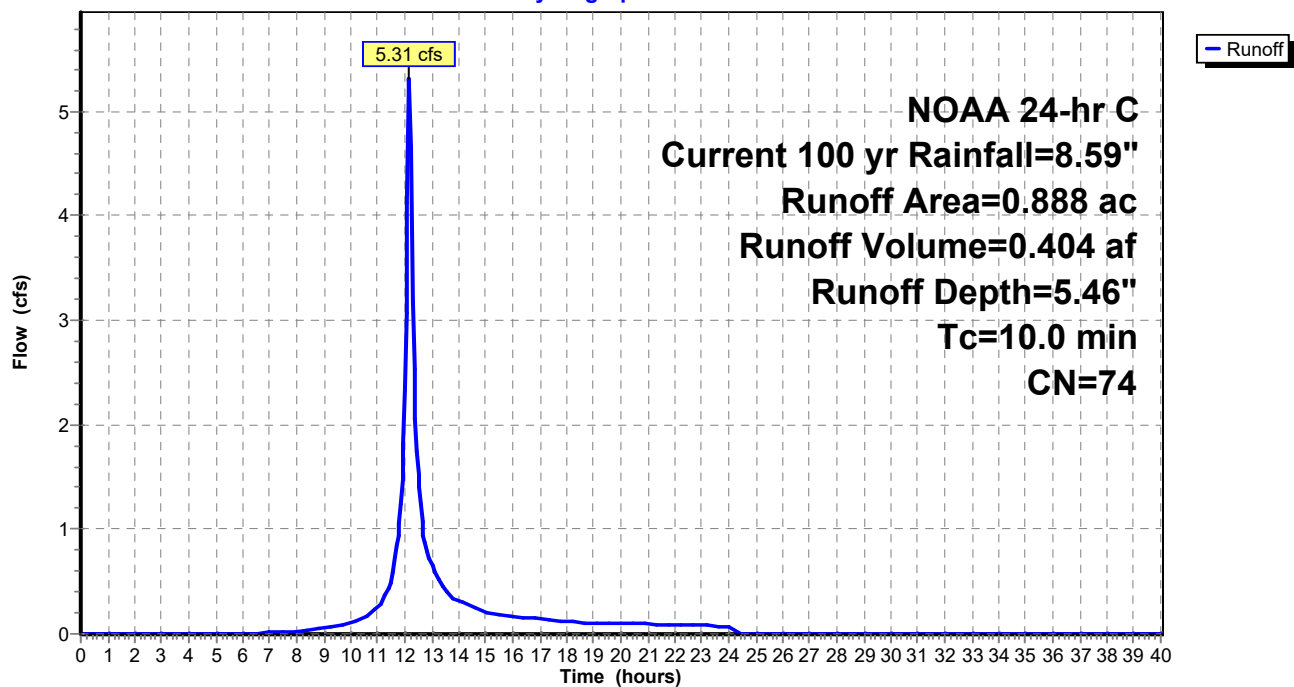
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 100 yr Rainfall=8.59"

Area (ac)	CN	Description
0.888	74	>75% Grass cover, Good, HSG C
0.888		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 1P: PDA-1 (pervious)

Hydrograph



Summary for Subcatchment 2I: PDA-2 (impervious)

Runoff = 5.68 cfs @ 12.17 hrs, Volume= 0.504 af, Depth= 8.35"
 Routed to Pond B-2 : Basin #2

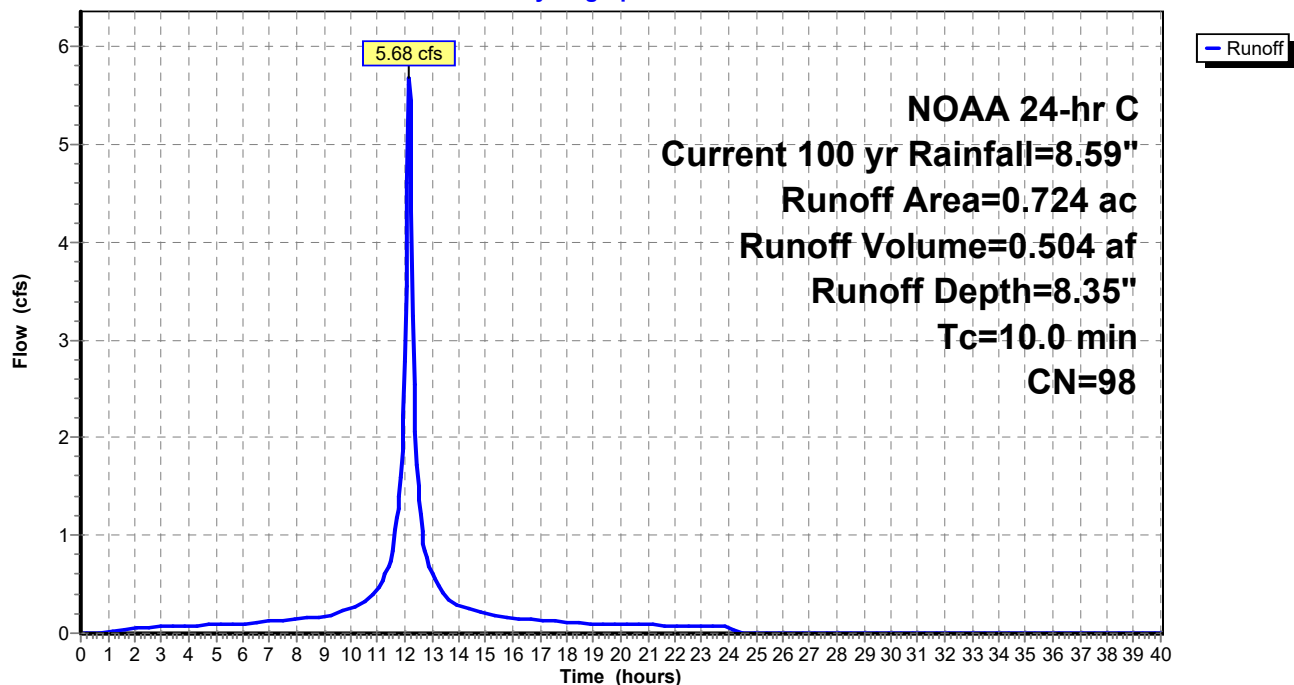
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 100 yr Rainfall=8.59"

Area (ac)	CN	Description
* 0.490	98	Roof, HSG C
* 0.196	98	Pavement, HSG C
* 0.038	98	Concrete, HSG C
0.724	98	Weighted Average
0.724		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 2I: PDA-2 (impervious)

Hydrograph



Summary for Subcatchment 2P: PDA-2 (pervious)

Runoff = 7.00 cfs @ 12.17 hrs, Volume= 0.532 af, Depth= 5.46"
 Routed to Pond B-2 : Basin #2

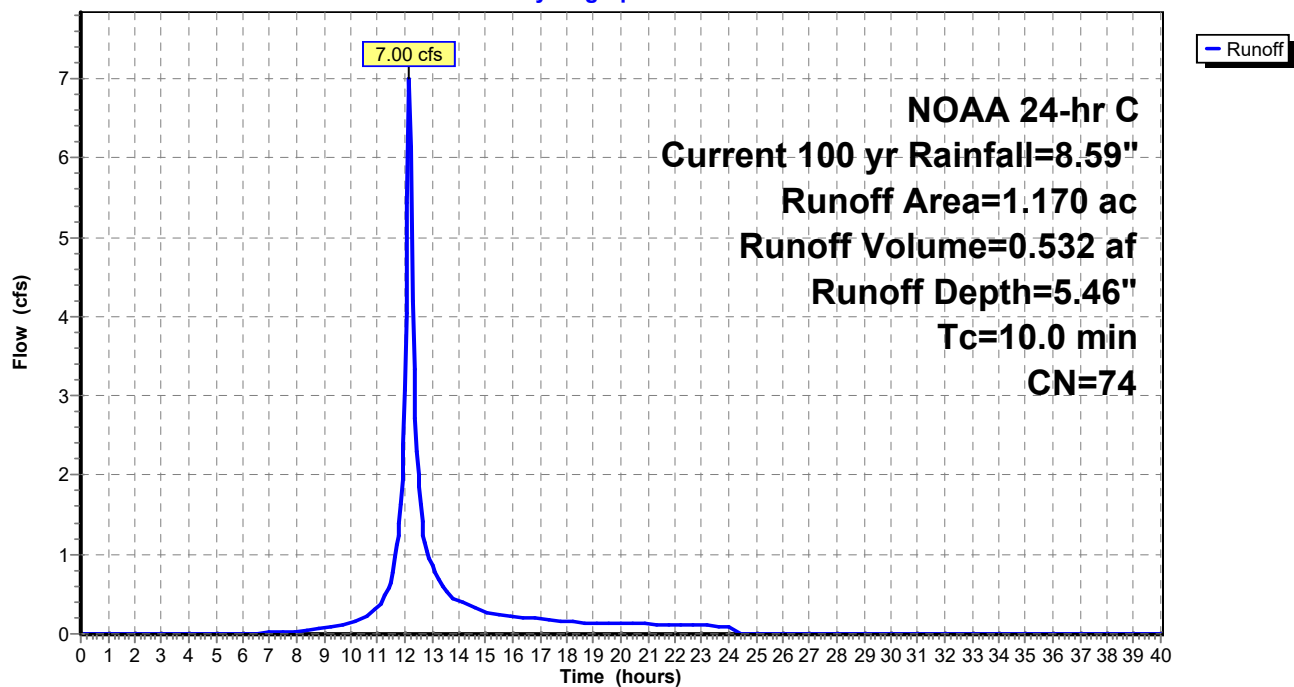
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 100 yr Rainfall=8.59"

Area (ac)	CN	Description
1.170	74	>75% Grass cover, Good, HSG C
1.170		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 2P: PDA-2 (pervious)

Hydrograph



Summary for Subcatchment 3I: PDA-3 (impervious)

Runoff = 4.68 cfs @ 12.17 hrs, Volume= 0.415 af, Depth= 8.35"
 Routed to Pond B-3 : Basin #3

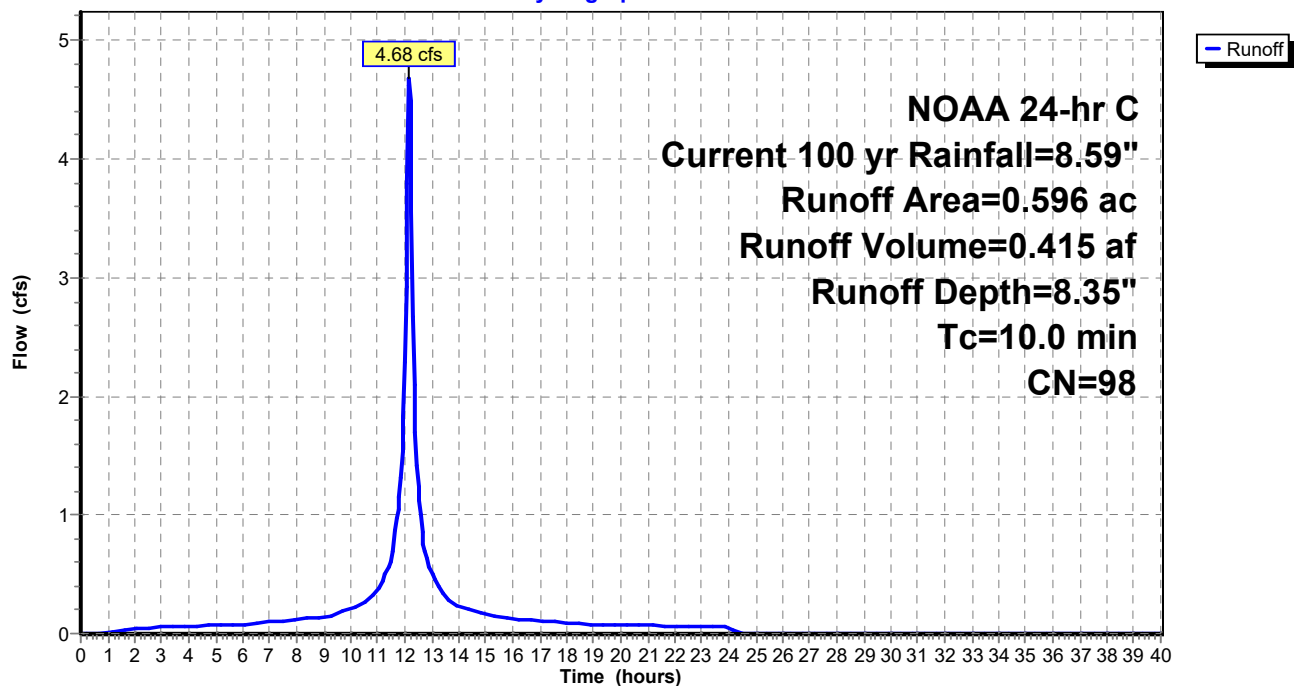
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 100 yr Rainfall=8.59"

Area (ac)	CN	Description
* 0.304	98	Pavement, HSG C
* 0.035	98	Concrete, HSG C
0.257	98	Unconnected roofs, HSG C
0.596	98	Weighted Average
0.596		100.00% Impervious Area
0.257		43.12% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 3I: PDA-3 (impervious)

Hydrograph



Summary for Subcatchment 3P: PDA-3 (pervious)

Runoff = 5.73 cfs @ 12.17 hrs, Volume= 0.436 af, Depth= 5.46"
 Routed to Pond B-3 : Basin #3

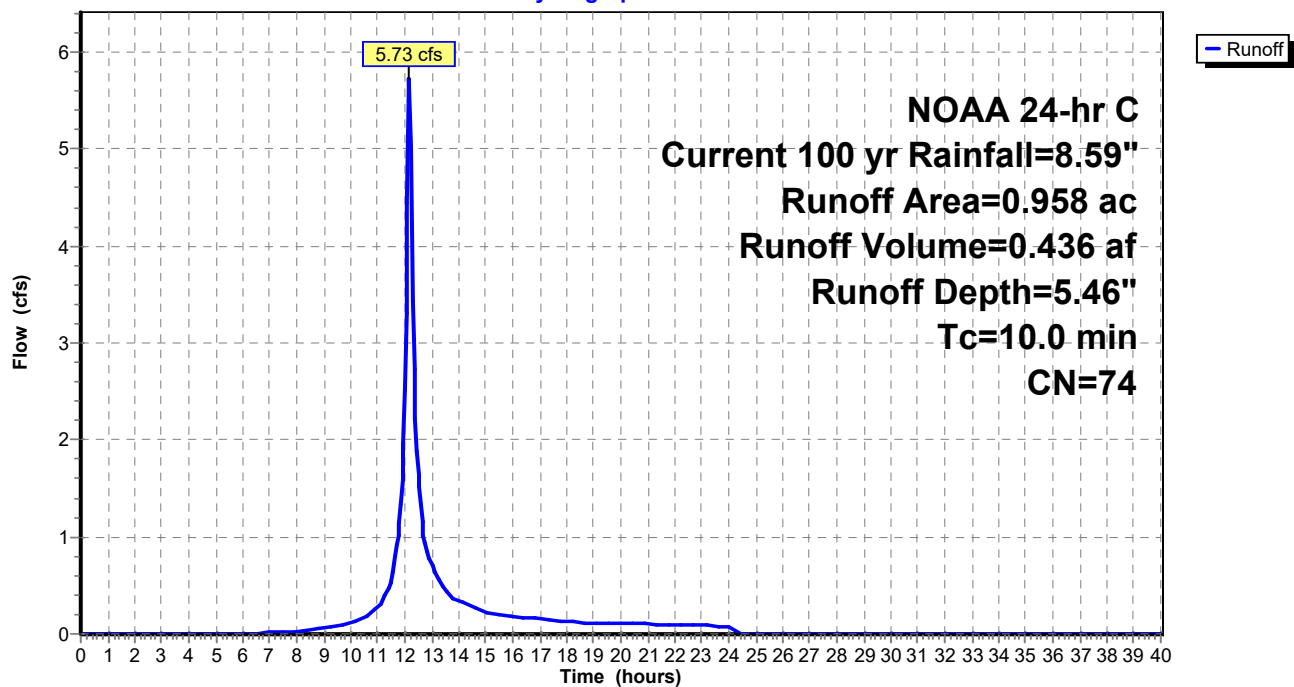
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 100 yr Rainfall=8.59"

Area (ac)	CN	Description
0.958	74	>75% Grass cover, Good, HSG C
0.958		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 3P: PDA-3 (pervious)

Hydrograph



Summary for Subcatchment 4A1: PDA-4A (impervious)

Runoff = 6.75 cfs @ 12.17 hrs, Volume= 0.598 af, Depth= 8.35"
 Routed to Pond B-4A : Basin #4A

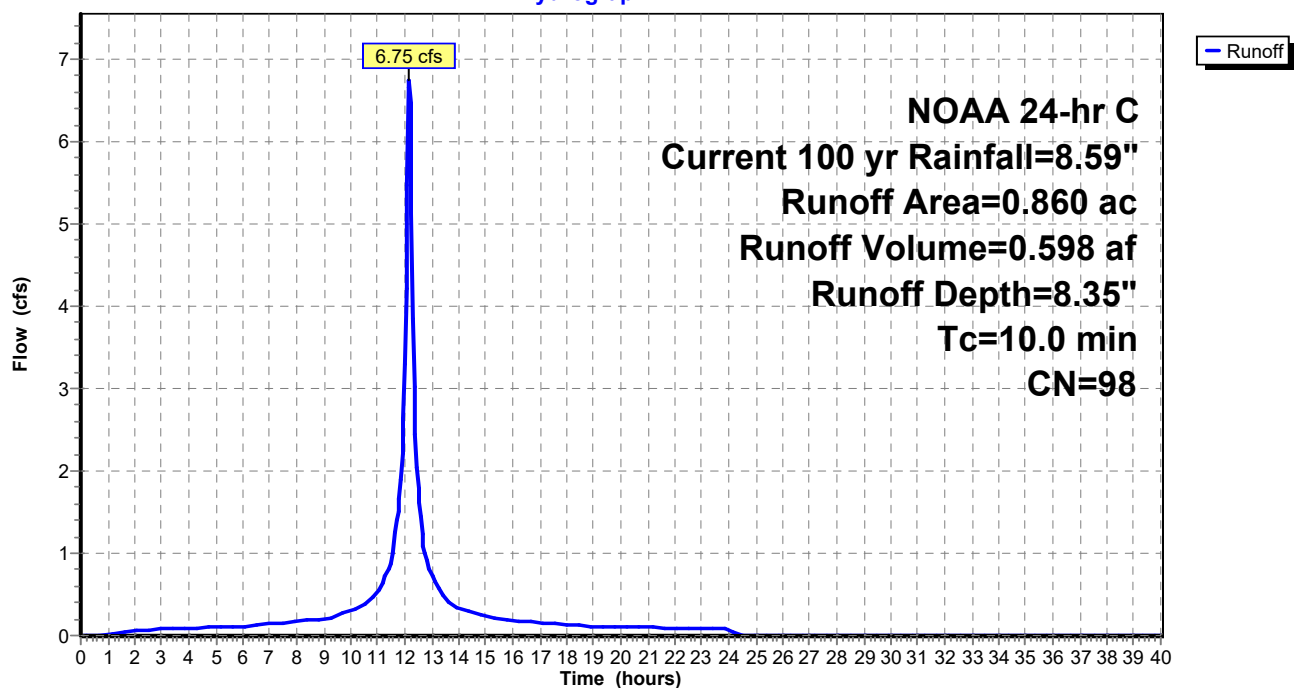
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 100 yr Rainfall=8.59"

Area (ac)	CN	Description
* 0.742	98	Pavement, HSG C
* 0.118	98	Concrete, HSG C
0.860	98	Weighted Average
0.860		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 4A1: PDA-4A (impervious)

Hydrograph



Summary for Subcatchment 4AP: PDA-4A (pervious)

Runoff = 8.80 cfs @ 12.17 hrs, Volume= 0.669 af, Depth= 5.46"
 Routed to Pond B-4A : Basin #4A

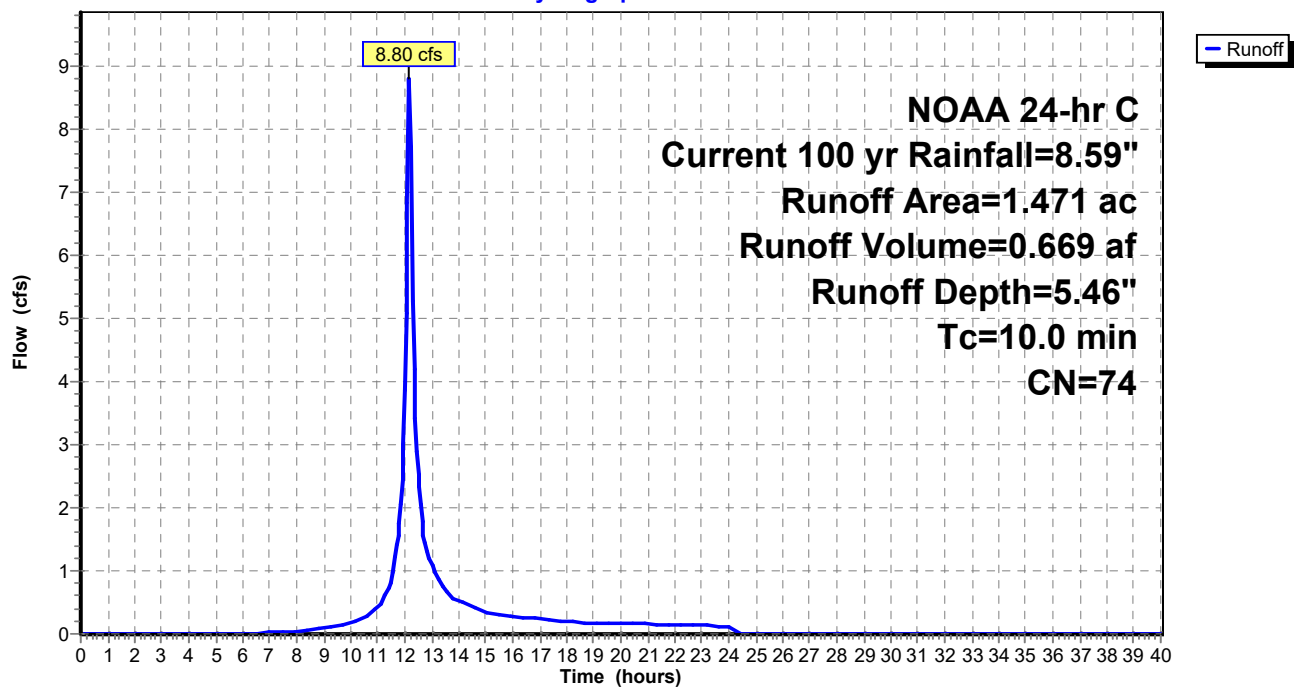
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 100 yr Rainfall=8.59"

Area (ac)	CN	Description
1.471	74	>75% Grass cover, Good, HSG C
1.471		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 4AP: PDA-4A (pervious)

Hydrograph



Summary for Subcatchment 4BI: PDA-4B (impervious)

Runoff = 6.75 cfs @ 12.17 hrs, Volume= 0.598 af, Depth= 8.35"
 Routed to Pond B-4B : Basin #4B

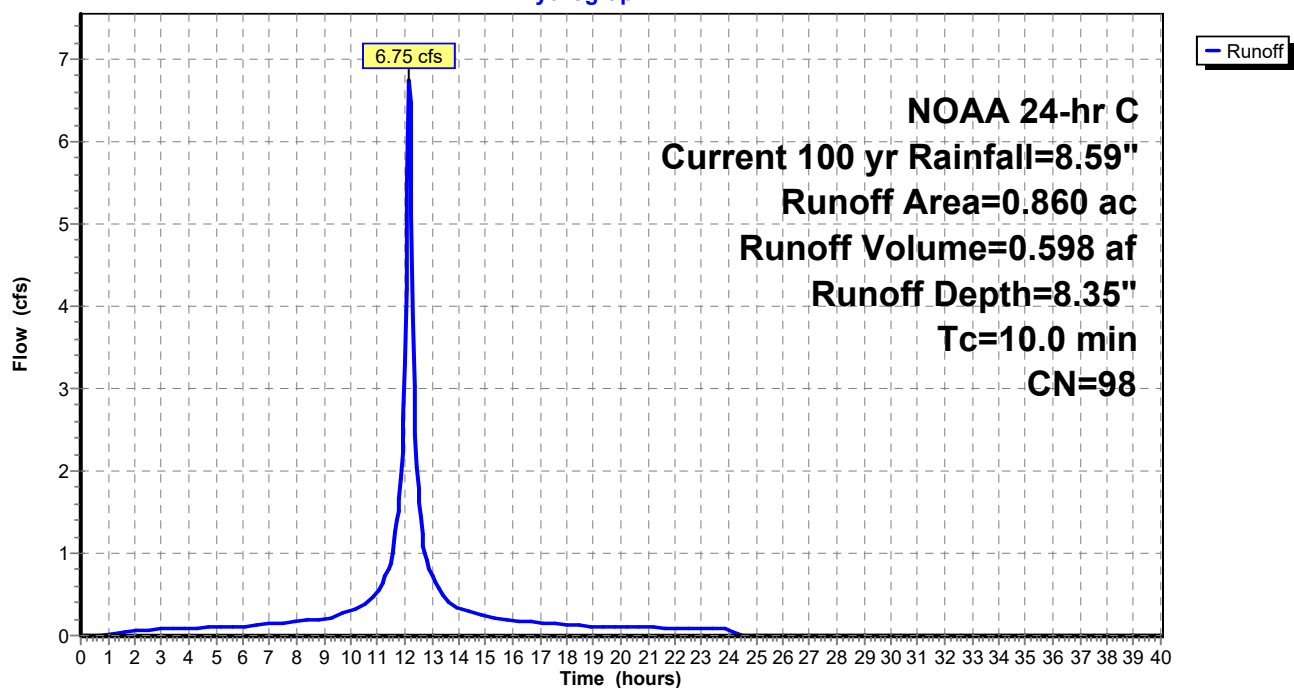
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 100 yr Rainfall=8.59"

Area (ac)	CN	Description
* 0.742	98	Pavement, HSG C
* 0.118	98	Concrete, HSG C
0.860	98	Weighted Average
0.860		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 4BI: PDA-4B (impervious)

Hydrograph



Summary for Subcatchment 4BP: PDA-4B (pervious)

Runoff = 8.80 cfs @ 12.17 hrs, Volume= 0.669 af, Depth= 5.46"
 Routed to Pond B-4B : Basin #4B

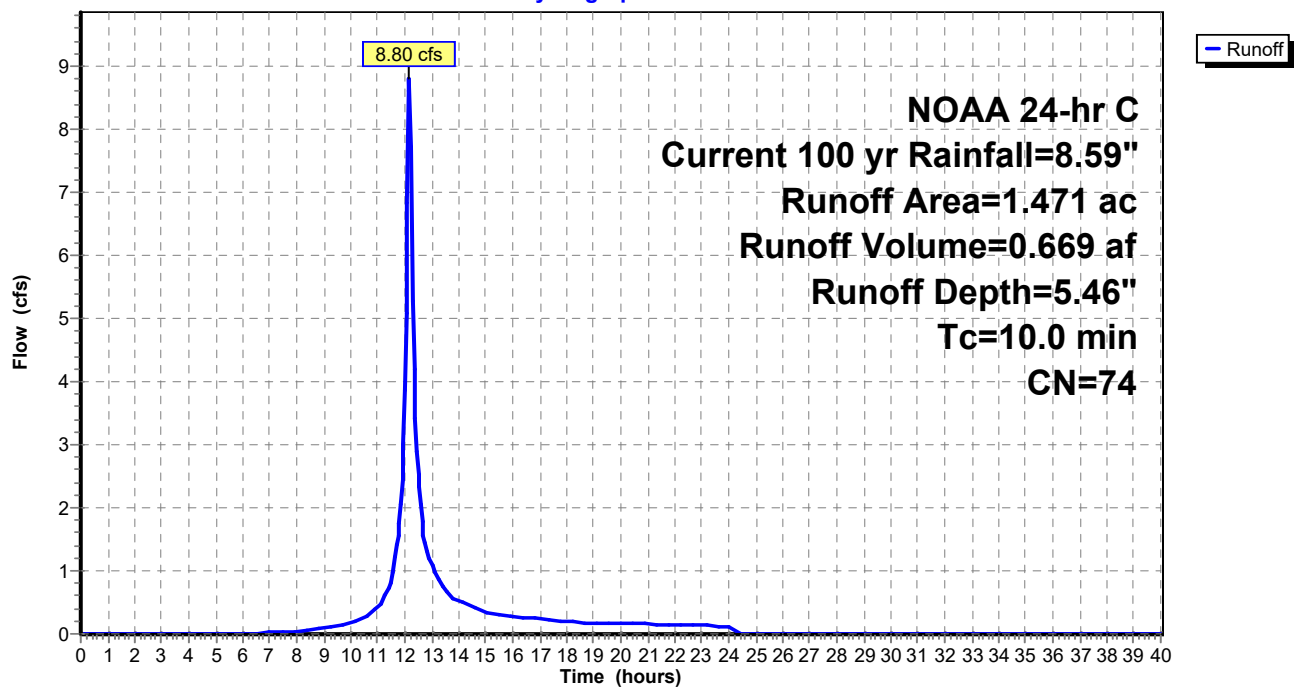
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 100 yr Rainfall=8.59"

Area (ac)	CN	Description
1.471	74	>75% Grass cover, Good, HSG C
1.471		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 4BP: PDA-4B (pervious)

Hydrograph



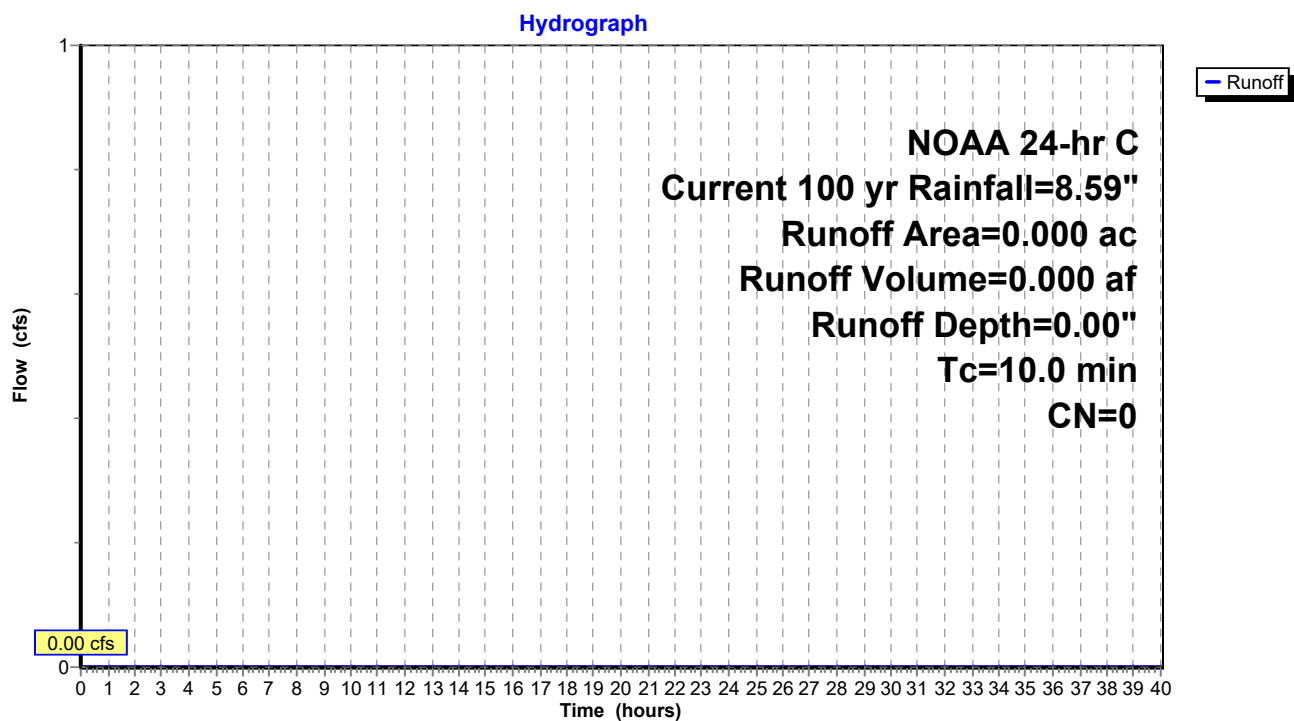
Summary for Subcatchment 5I: PDA-5 (impervious)

Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Depth= 0.00"
 Routed to Pond B-5 : Basin #5

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 100 yr Rainfall=8.59"

Area (ac)	CN	Description
* 0.000	98	Pavement, HSG C
* 0.000	98	Concrete, HSG C
0.000	0	Weighted Average

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 5I: PDA-5 (impervious)

Summary for Subcatchment 5P: PDA-5 (pervious)

Runoff = 4.06 cfs @ 12.17 hrs, Volume= 0.309 af, Depth= 5.46"
 Routed to Pond B-5 : Basin #5

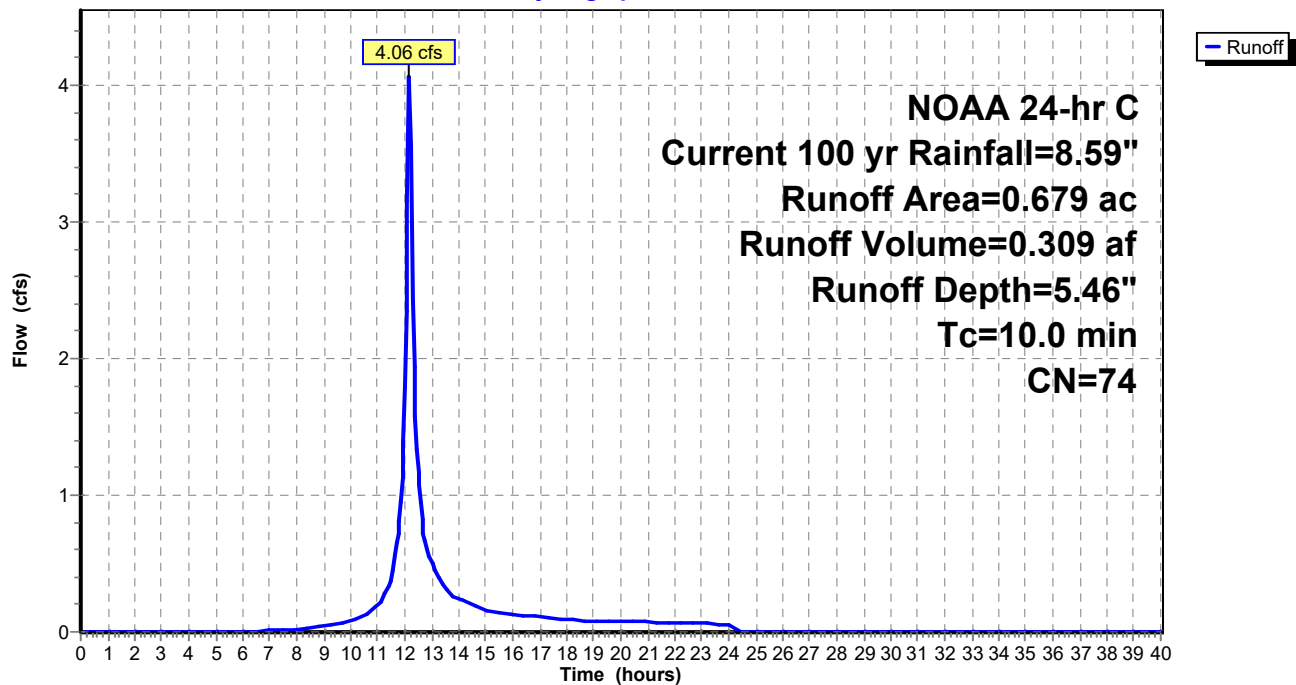
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 100 yr Rainfall=8.59"

Area (ac)	CN	Description
0.679	74	>75% Grass cover, Good, HSG C
0.679		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 5P: PDA-5 (pervious)

Hydrograph



Summary for Subcatchment 6I: PDA-6 (impervious)

Runoff = 5.45 cfs @ 12.17 hrs, Volume= 0.483 af, Depth= 8.35"
 Routed to Pond B-6 : Basin #6

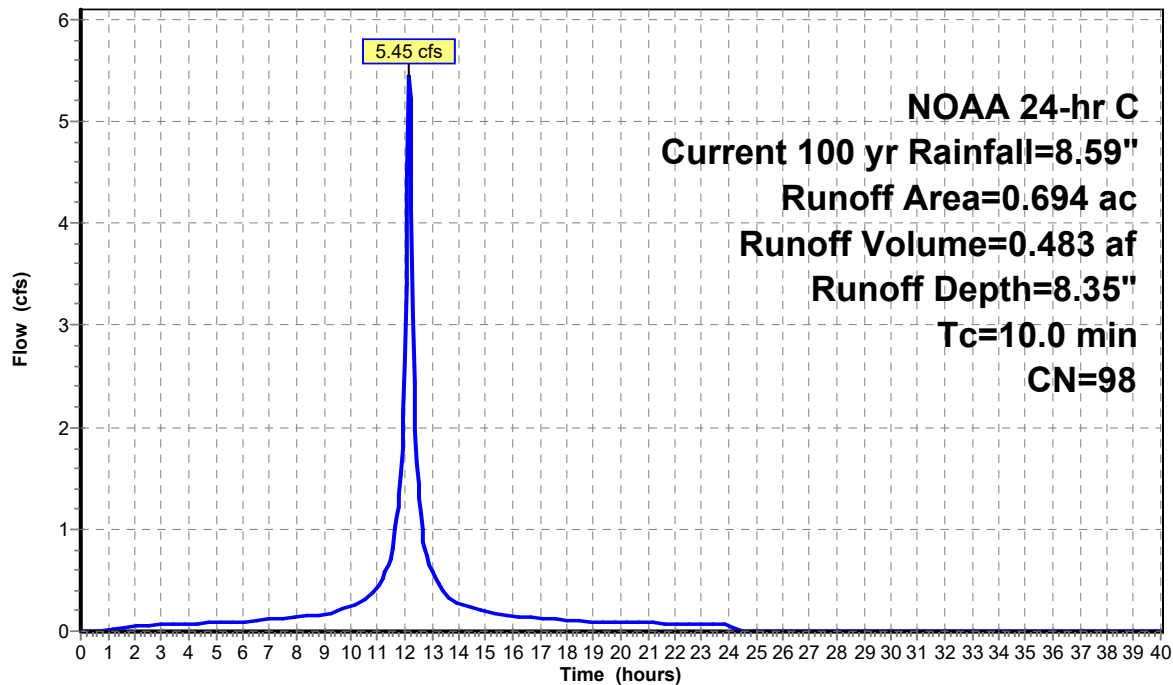
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 100 yr Rainfall=8.59"

Area (ac)	CN	Description
* 0.459	98	Pavement, HSG C
* 0.129	98	Roof, HSG C
* 0.106	98	Concrete, HSG C
0.694	98	Weighted Average
0.694		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 6I: PDA-6 (impervious)

Hydrograph



Summary for Subcatchment 6P: PDA-6 (pervious)

Runoff = 2.97 cfs @ 12.17 hrs, Volume= 0.226 af, Depth= 5.46"
 Routed to Pond B-6 : Basin #6

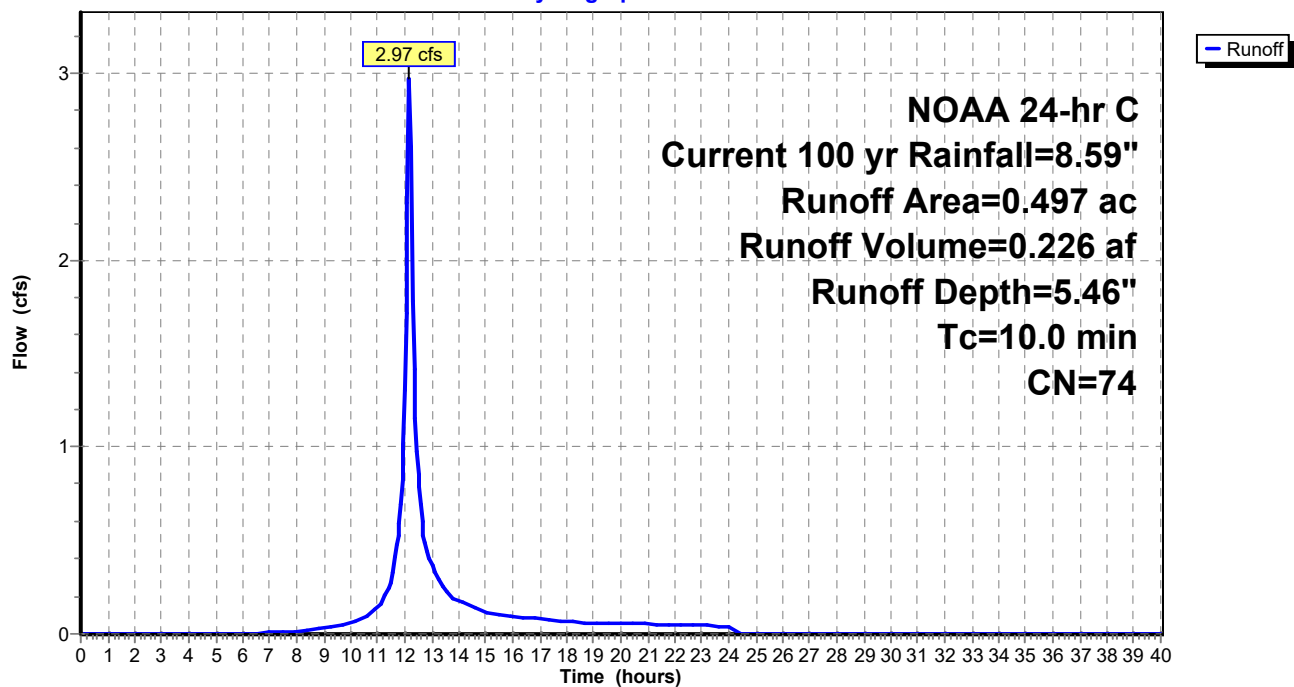
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 100 yr Rainfall=8.59"

Area (ac)	CN	Description
0.497	74	>75% Grass cover, Good, HSG C
0.497		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 6P: PDA-6 (pervious)

Hydrograph



Summary for Subcatchment 7I: PDA-7 (impervious)

Runoff = 7.72 cfs @ 12.17 hrs, Volume= 0.684 af, Depth= 8.35"
 Routed to Pond B-7 : Basin #7

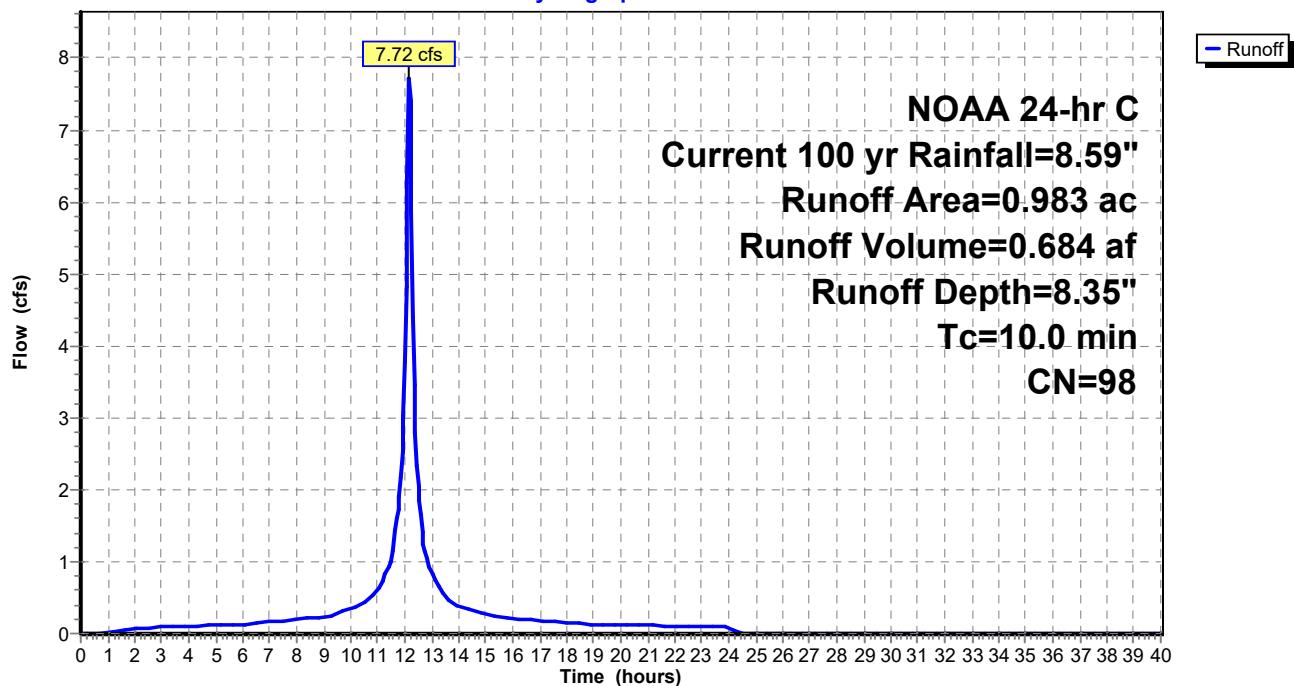
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 100 yr Rainfall=8.59"

Area (ac)	CN	Description
* 0.886	98	Pavement, HSG C
* 0.097	98	Concrete, HSG C
0.983	98	Weighted Average
0.983		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 7I: PDA-7 (impervious)

Hydrograph



Summary for Subcatchment 7P: PDA-7 (pervious)

Runoff = 3.48 cfs @ 12.17 hrs, Volume= 0.264 af, Depth= 5.46"
 Routed to Pond B-7 : Basin #7

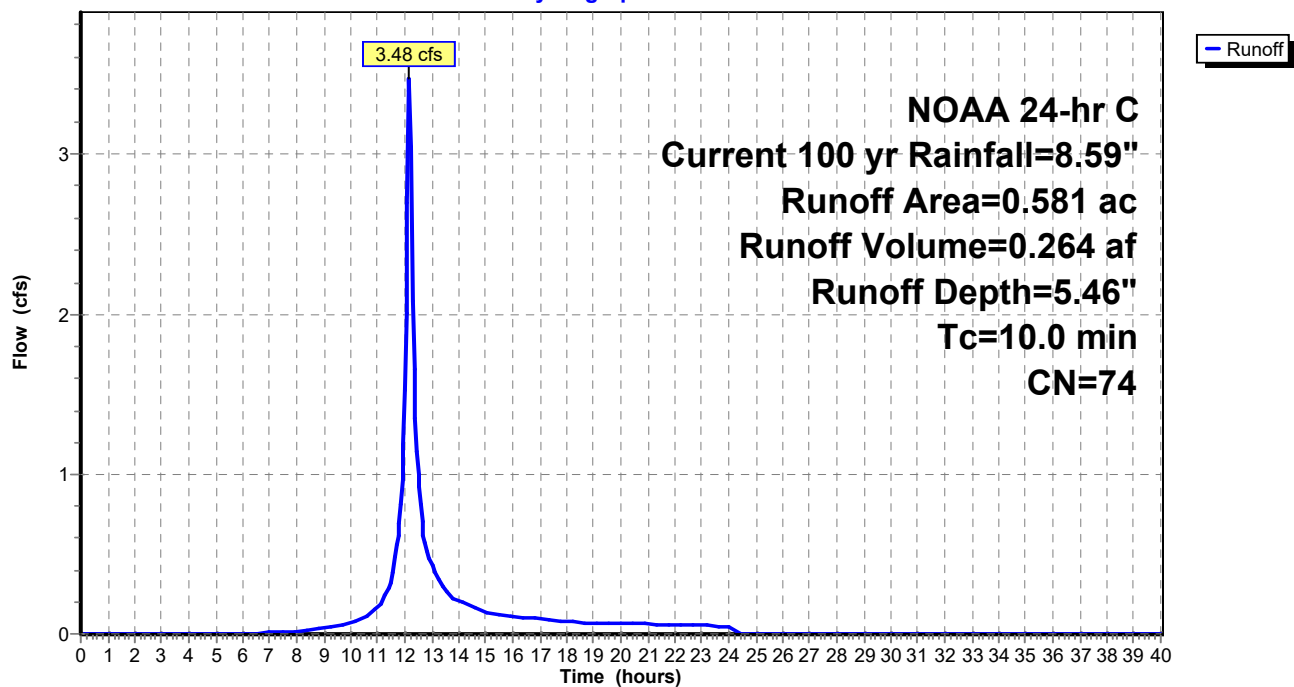
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 100 yr Rainfall=8.59"

Area (ac)	CN	Description
0.581	74	>75% Grass cover, Good, HSG C
0.581		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 7P: PDA-7 (pervious)

Hydrograph



Summary for Subcatchment 8I: PDA-8 (impervious)

Runoff = 3.78 cfs @ 12.17 hrs, Volume= 0.335 af, Depth= 8.35"
 Routed to Pond B-8 : Basin #8

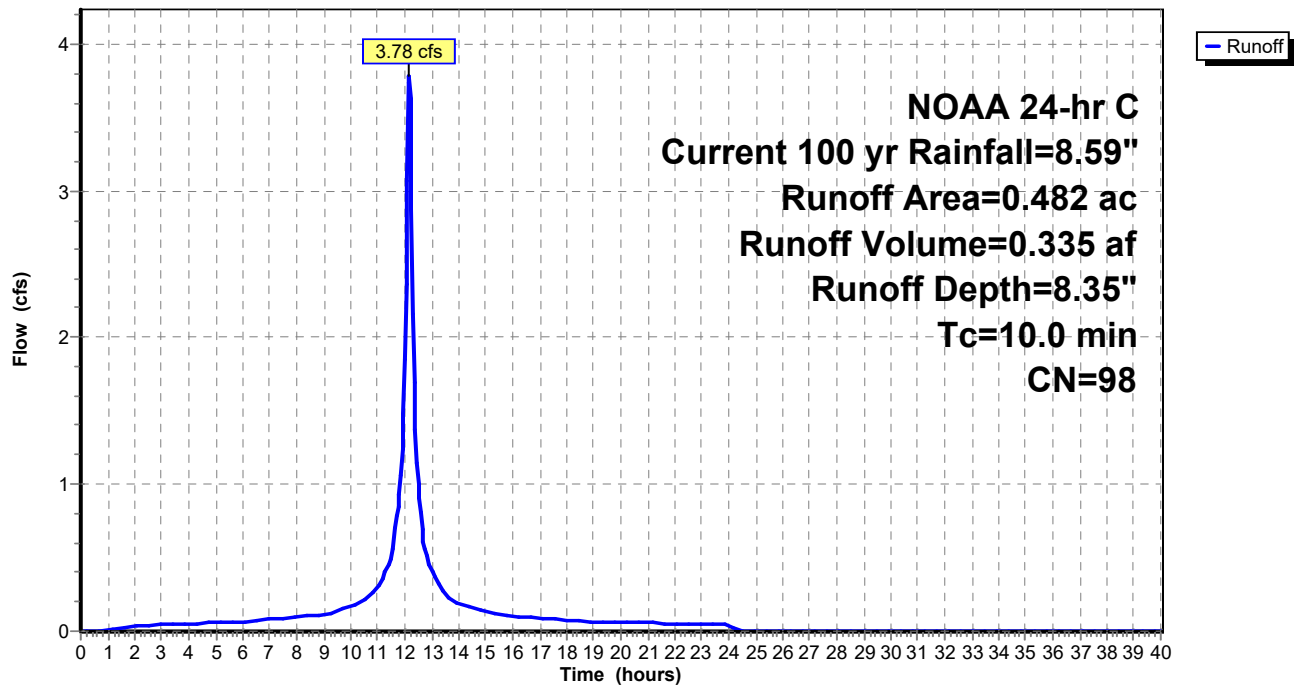
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 100 yr Rainfall=8.59"

Area (ac)	CN	Description
* 0.000	98	Pavement, HSG C
* 0.482	98	Roof, HSG C
* 0.000	98	Concrete, HSG C
0.482	98	Weighted Average
0.482		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 8I: PDA-8 (impervious)

Hydrograph



Summary for Subcatchment 8P: PDA-8 (pervious)

Runoff = 9.62 cfs @ 12.17 hrs, Volume= 0.731 af, Depth= 5.46"
 Routed to Pond B-8 : Basin #8

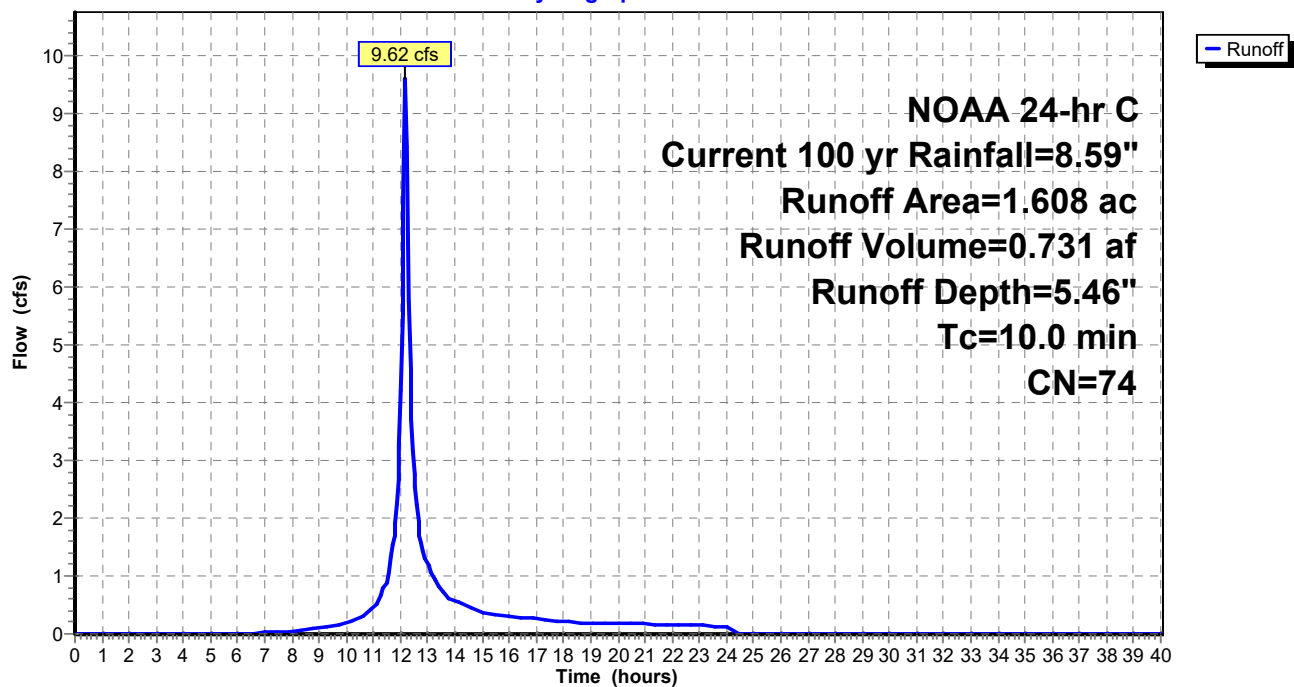
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 100 yr Rainfall=8.59"

Area (ac)	CN	Description
1.608	74	>75% Grass cover, Good, HSG C
1.608		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 8P: PDA-8 (pervious)

Hydrograph



Summary for Subcatchment 9I: PDA-9 (impervious)

Runoff = 6.21 cfs @ 12.17 hrs, Volume= 0.550 af, Depth= 8.35"
 Routed to Pond B-9 : Basin #9

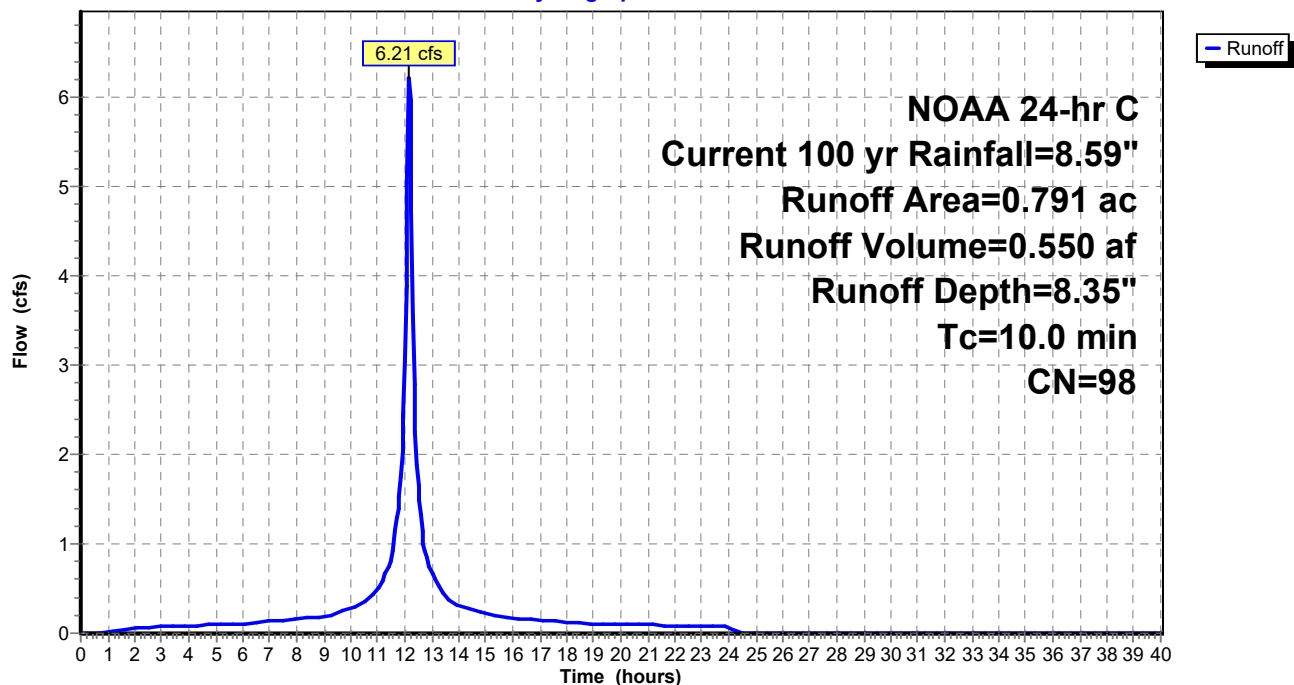
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 100 yr Rainfall=8.59"

Area (ac)	CN	Description
* 0.286	98	Pavement, HSG C
* 0.450	98	Roof, HSG C
* 0.055	98	Concrete, HSG C
0.791	98	Weighted Average
0.791		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 9I: PDA-9 (impervious)

Hydrograph



Summary for Subcatchment 9P: PDA-9 (pervious)

Runoff = 4.26 cfs @ 12.17 hrs, Volume= 0.324 af, Depth= 5.46"
 Routed to Pond B-9 : Basin #9

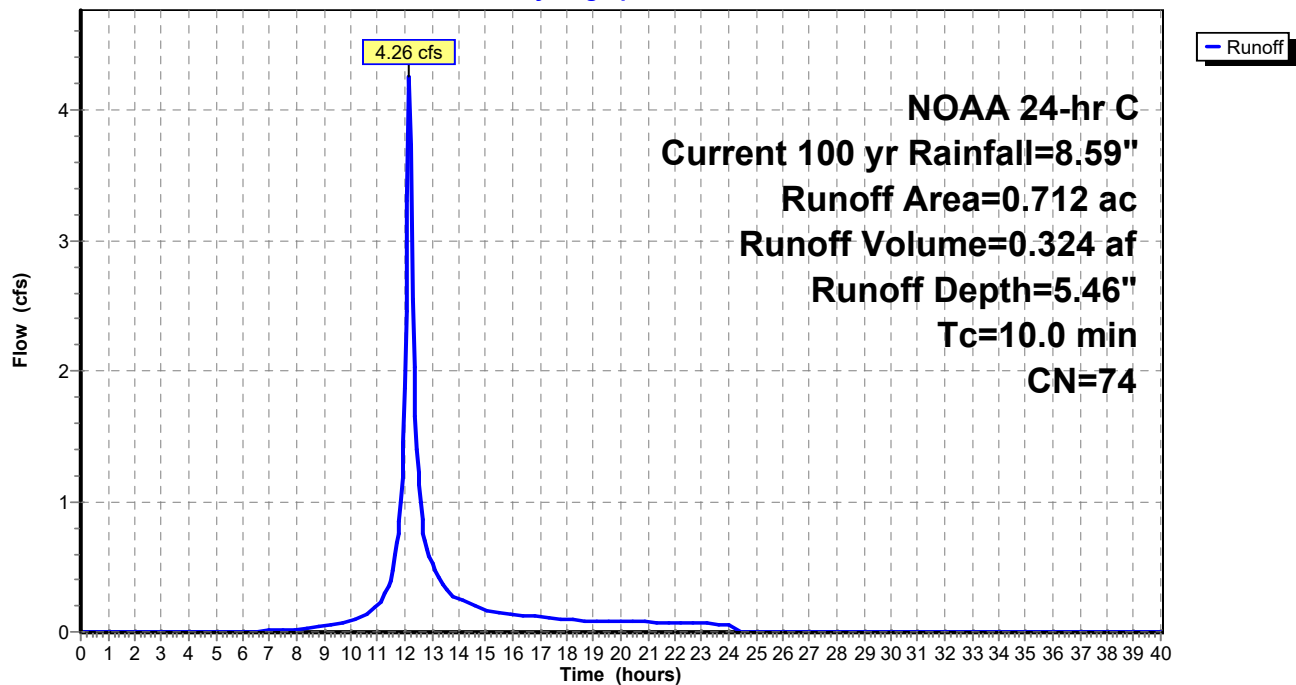
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 100 yr Rainfall=8.59"

Area (ac)	CN	Description
0.712	74	>75% Grass cover, Good, HSG C
0.712		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 9P: PDA-9 (pervious)

Hydrograph



Summary for Subcatchment 10I: PDA-10 (impervious)

Runoff = 7.44 cfs @ 12.17 hrs, Volume= 0.660 af, Depth= 8.35"
 Routed to Pond B-10 : Basin #10

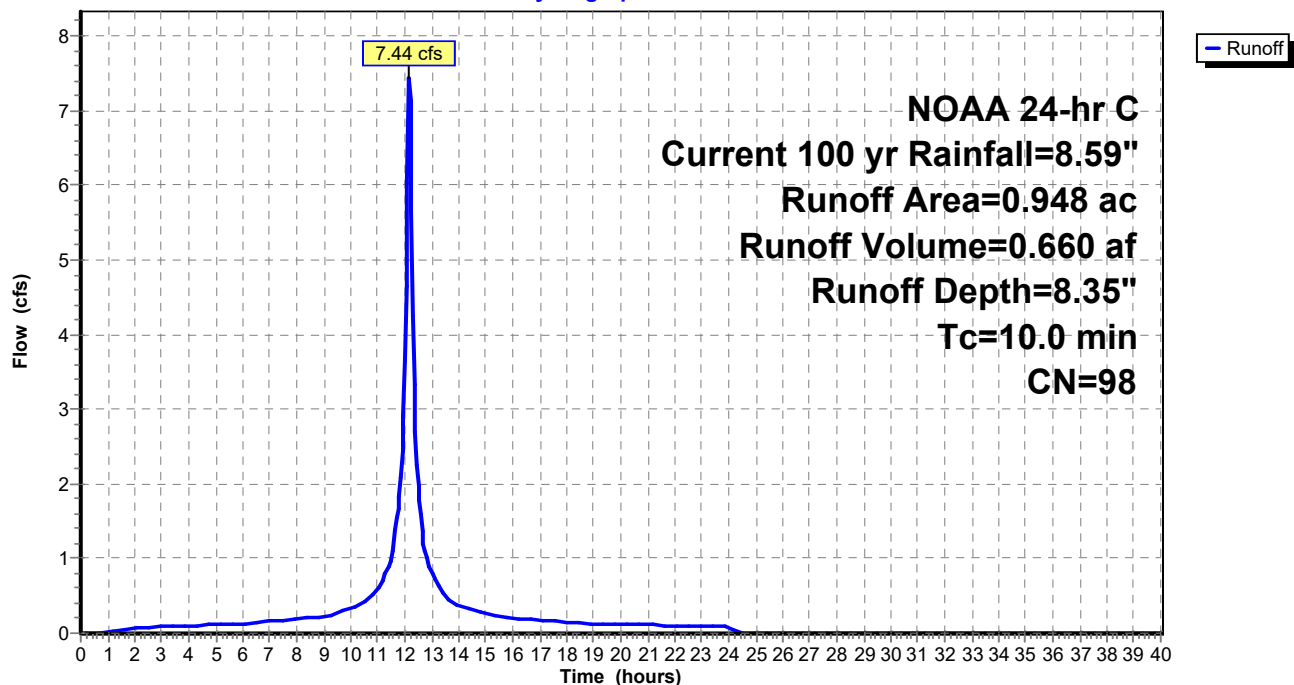
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 100 yr Rainfall=8.59"

Area (ac)	CN	Description
* 0.570	98	Pavement, HSG C
* 0.321	98	Roof, HSG C
* 0.057	98	Concrete, HSG C
0.948	98	Weighted Average
0.948		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 10I: PDA-10 (impervious)

Hydrograph



Summary for Subcatchment 10P: PDA-10 (pervious)

Runoff = 4.34 cfs @ 12.17 hrs, Volume= 0.330 af, Depth= 5.46"
 Routed to Pond B-10 : Basin #10

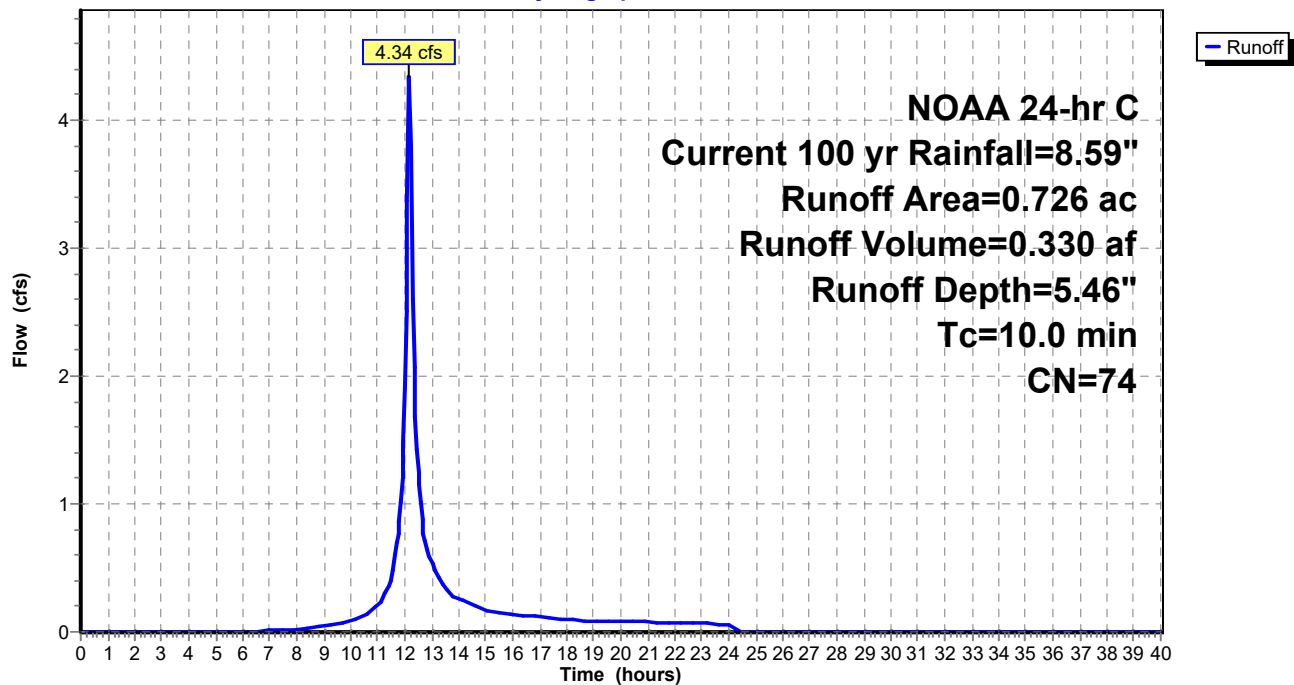
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 100 yr Rainfall=8.59"

Area (ac)	CN	Description
0.726	74	>75% Grass cover, Good, HSG C
0.726		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 10P: PDA-10 (pervious)

Hydrograph



Summary for Subcatchment 11I: PDA-11 (impervious)

Runoff = 10.24 cfs @ 12.17 hrs, Volume= 0.907 af, Depth= 8.35"
 Routed to Pond B-11 : Basin #11

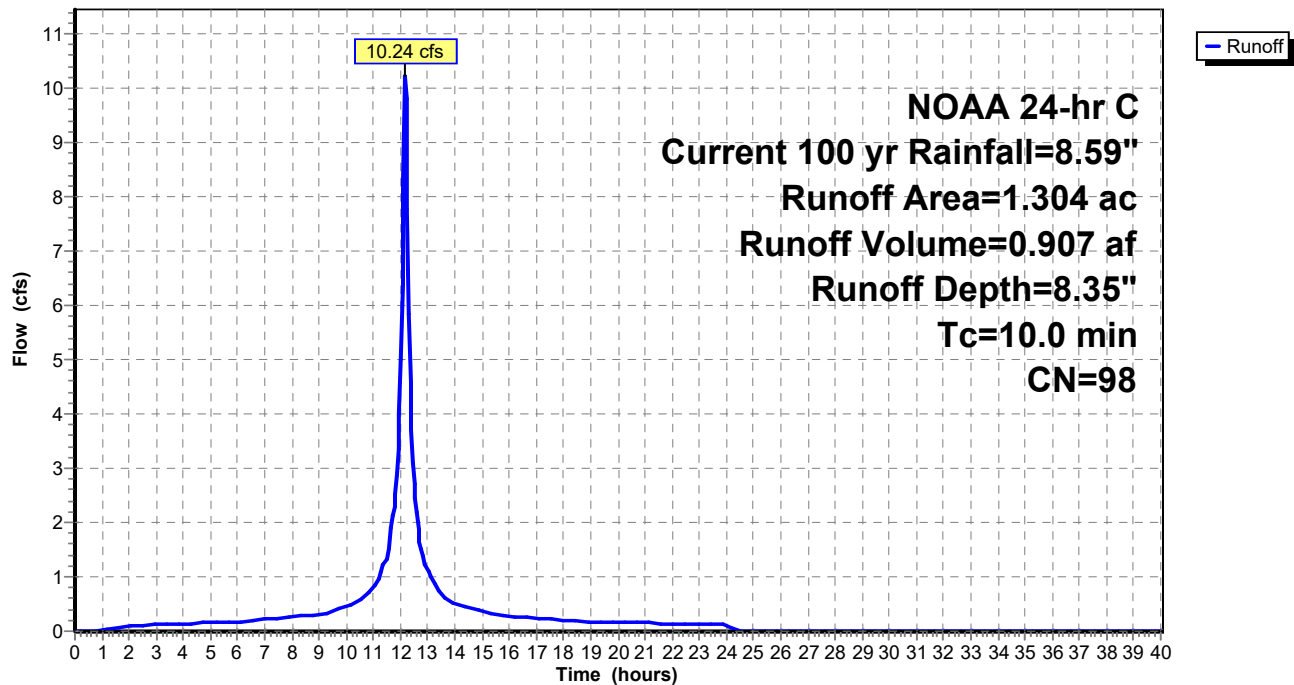
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 100 yr Rainfall=8.59"

Area (ac)	CN	Description
* 0.166	98	Concrete, HSG C
0.231	98	Roofs, HSG C
0.907	98	Paved roads w/curbs & sewers, HSG C
1.304	98	Weighted Average
1.304		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 11I: PDA-11 (impervious)

Hydrograph



Summary for Subcatchment 11P: PDA-11 (pervious)

Runoff = 5.53 cfs @ 12.17 hrs, Volume= 0.420 af, Depth= 5.46"
 Routed to Pond B-11 : Basin #11

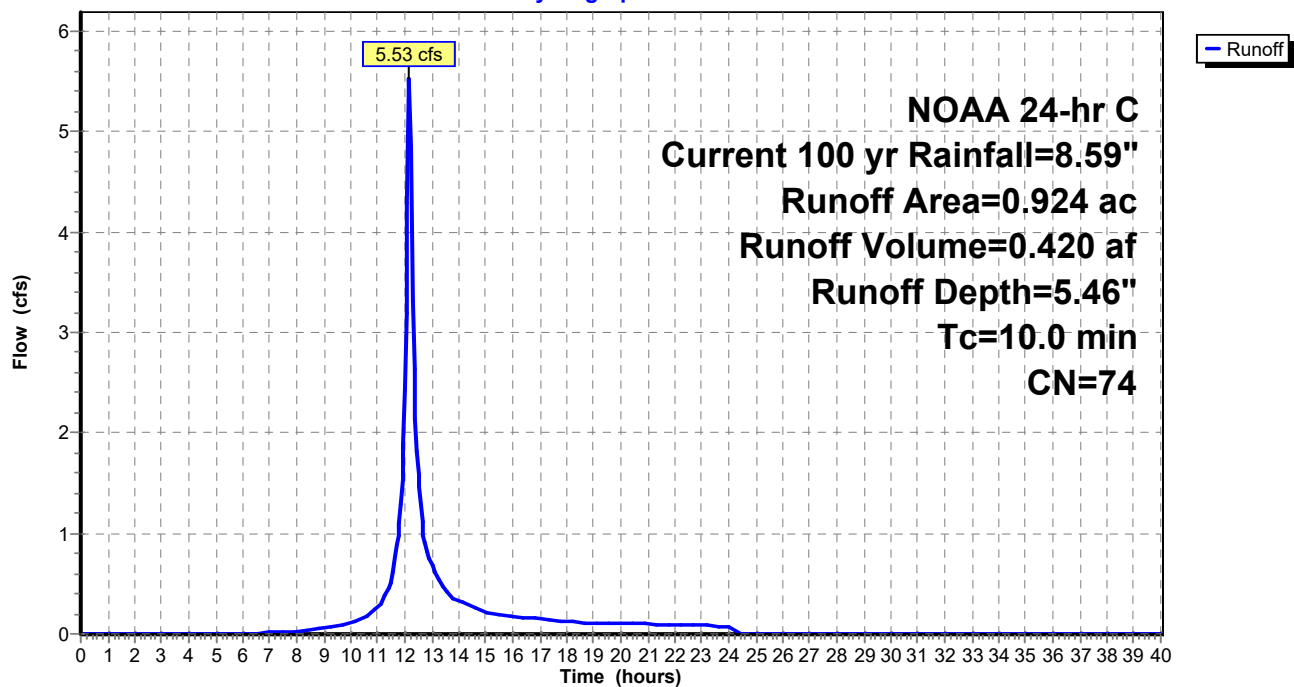
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 100 yr Rainfall=8.59"

Area (ac)	CN	Description
0.924	74	>75% Grass cover, Good, HSG C
0.924		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 11P: PDA-11 (pervious)

Hydrograph



Summary for Subcatchment 12I: PDA-12 (impervious)

Runoff = 8.53 cfs @ 12.17 hrs, Volume= 0.756 af, Depth= 8.35"
 Routed to Pond B-12 : Basin #12

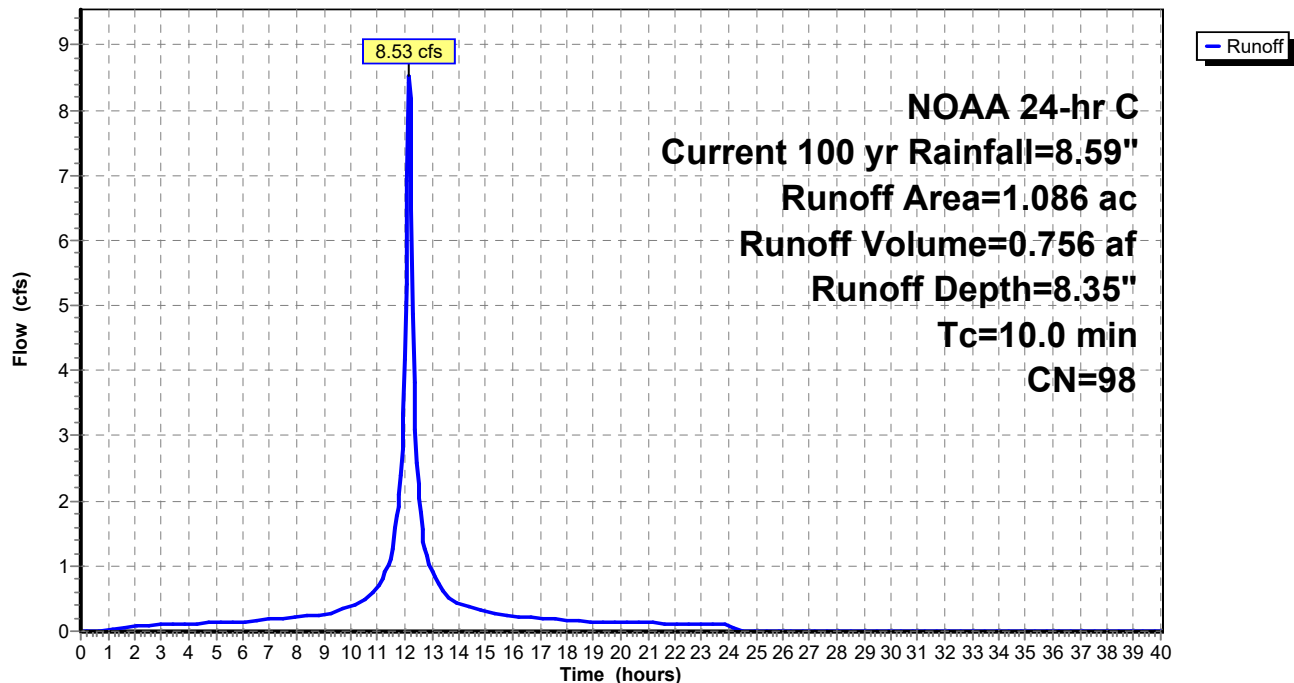
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 100 yr Rainfall=8.59"

Area (ac)	CN	Description
* 0.404	98	Pavement, HSG C
* 0.643	98	Roof, HSG C
* 0.039	98	Concrete, HSG C
1.086	98	Weighted Average
1.086		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 12I: PDA-12 (impervious)

Hydrograph



Summary for Subcatchment 12P: PDA-12 (pervious)

Runoff = 8.02 cfs @ 12.17 hrs, Volume= 0.609 af, Depth= 5.46"
 Routed to Pond B-12 : Basin #12

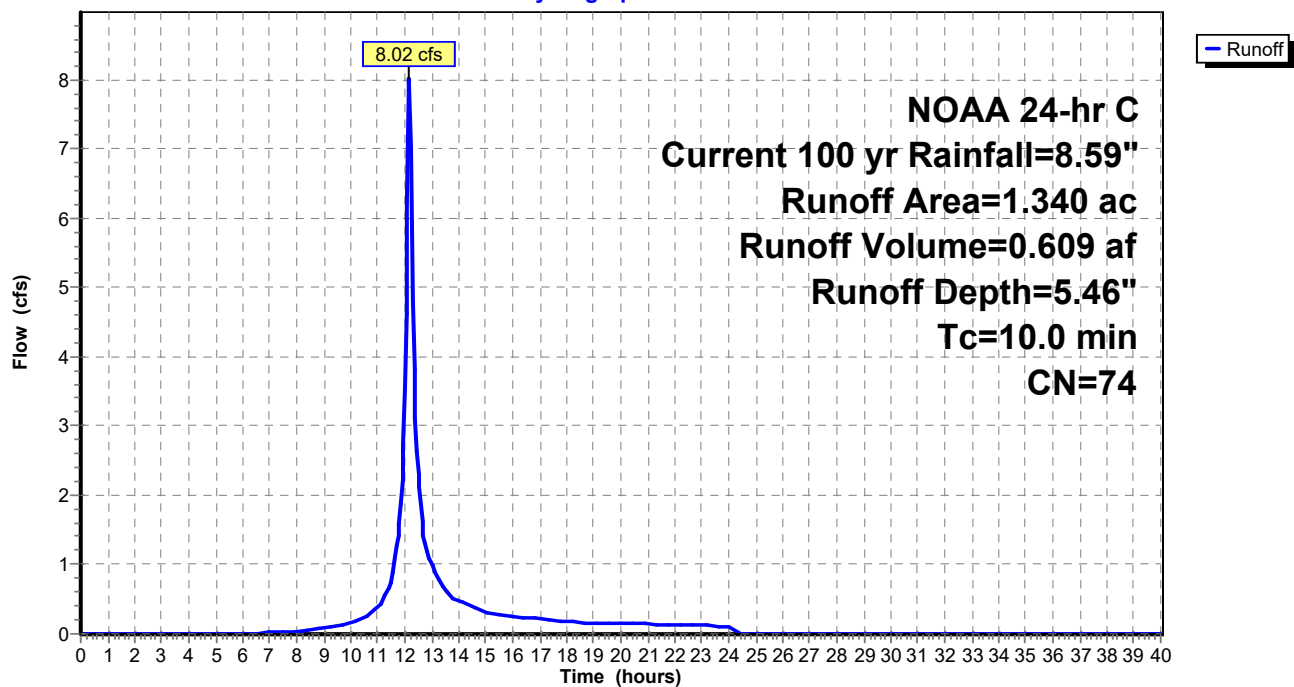
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 100 yr Rainfall=8.59"

Area (ac)	CN	Description
1.340	74	>75% Grass cover, Good, HSG C
1.340		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 12P: PDA-12 (pervious)

Hydrograph



Summary for Subcatchment 13I: PDA-13 (impervious)

Runoff = 11.52 cfs @ 12.17 hrs, Volume= 1.021 af, Depth= 8.35"
 Routed to Pond B-13 : Basin #13

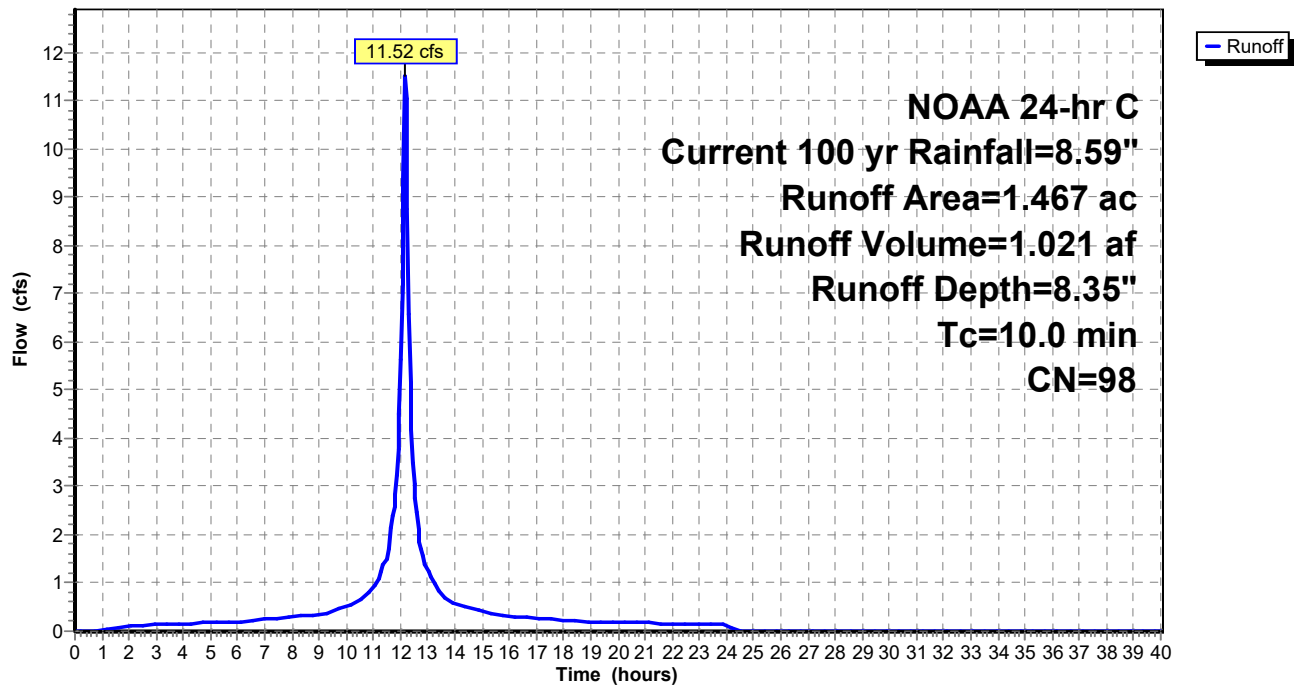
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 100 yr Rainfall=8.59"

Area (ac)	CN	Description
* 0.678	98	Pavement, HSG C
* 0.707	98	Roof, HSG C
* 0.082	98	Concrete, HSG C
1.467	98	Weighted Average
1.467		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 13I: PDA-13 (impervious)

Hydrograph



Summary for Subcatchment 13P: PDA-13 (pervious)

Runoff = 5.28 cfs @ 12.17 hrs, Volume= 0.402 af, Depth= 5.46"
 Routed to Pond B-13 : Basin #13

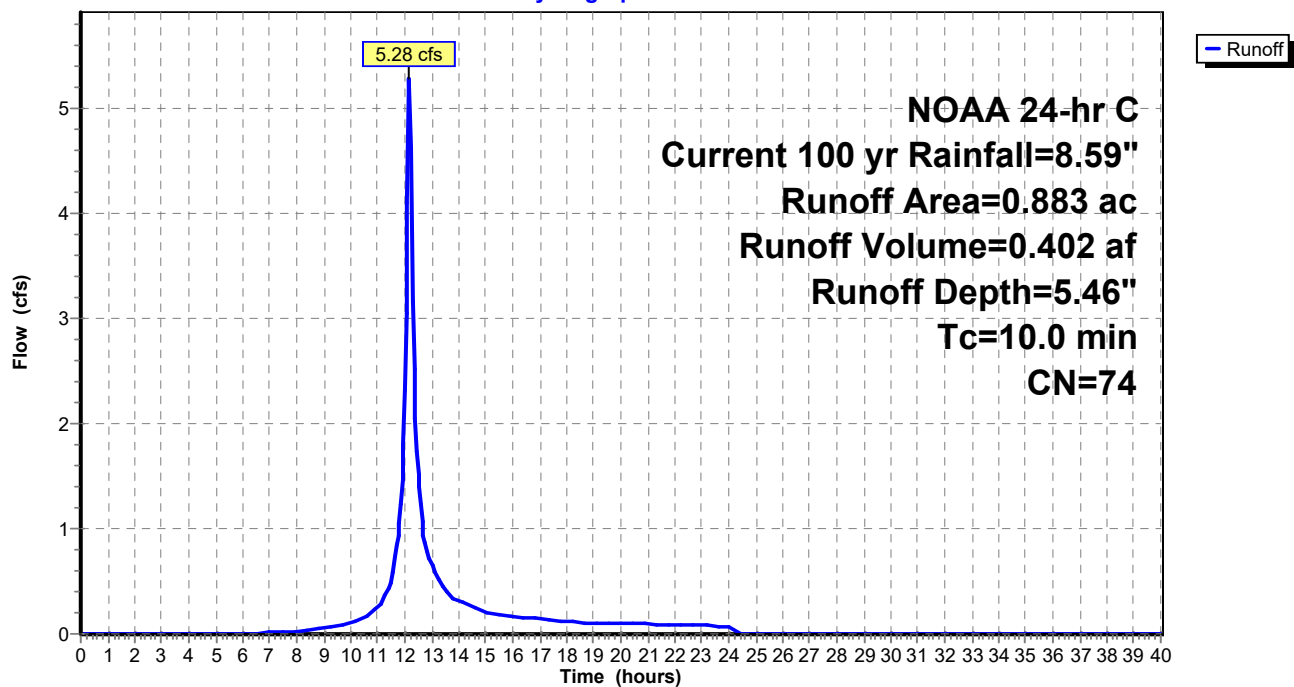
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 100 yr Rainfall=8.59"

Area (ac)	CN	Description
0.883	74	>75% Grass cover, Good, HSG C
0.883		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 13P: PDA-13 (pervious)

Hydrograph



Summary for Subcatchment 14I: PDA-14 (impervious)

Runoff = 3.99 cfs @ 12.17 hrs, Volume= 0.353 af, Depth= 8.35"
 Routed to Pond B-14 : Basin #14

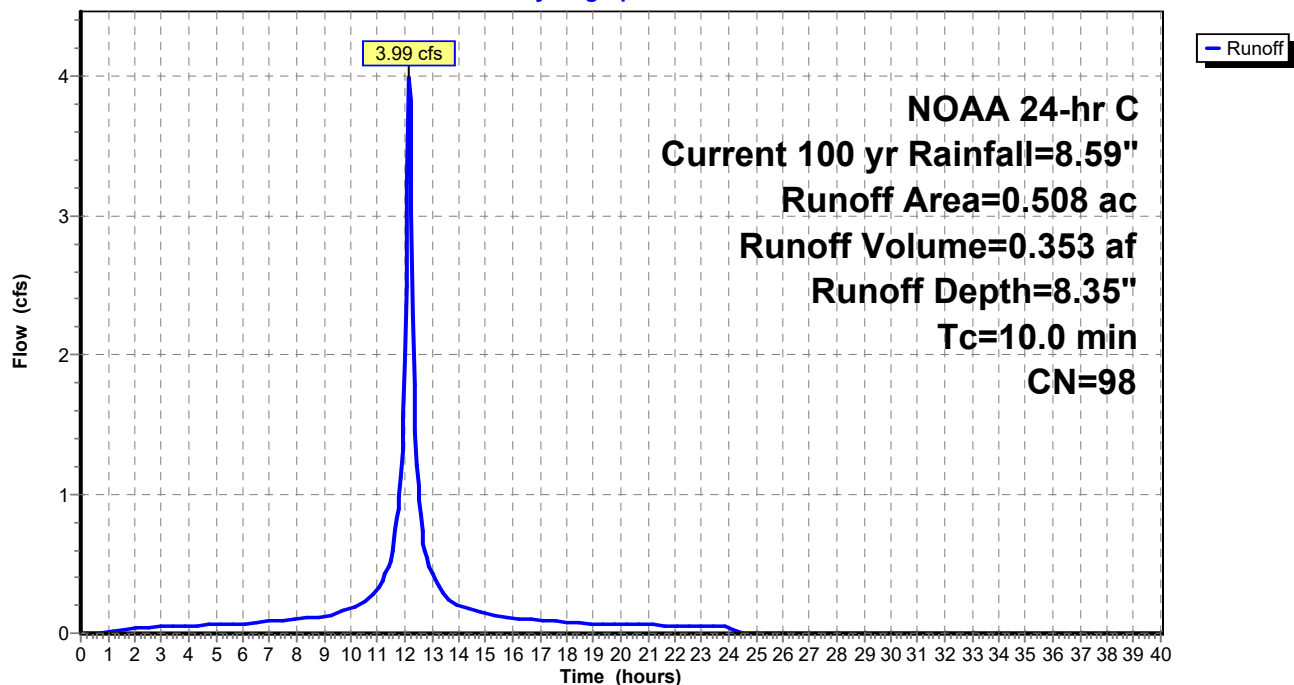
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 100 yr Rainfall=8.59"

Area (ac)	CN	Description
* 0.308	98	Pavement, HSG C
* 0.064	98	Roof, HSG C
* 0.136	98	Concrete, HSG C
0.508	98	Weighted Average
0.508		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 14I: PDA-14 (impervious)

Hydrograph



Summary for Subcatchment 14P: PDA-14 (pervious)

Runoff = 9.81 cfs @ 12.17 hrs, Volume= 0.746 af, Depth= 5.46"
 Routed to Pond B-14 : Basin #14

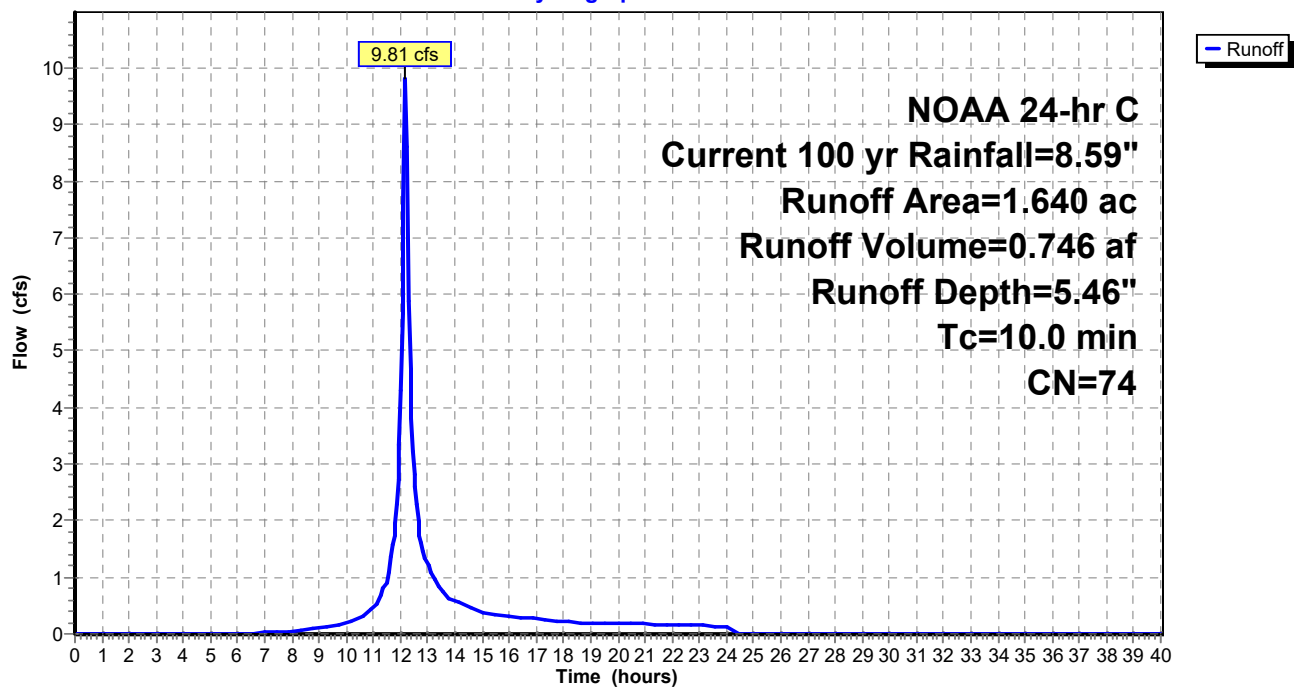
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 100 yr Rainfall=8.59"

Area (ac)	CN	Description
1.640	74	>75% Grass cover, Good, HSG C
1.640		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 14P: PDA-14 (pervious)

Hydrograph



Summary for Subcatchment 15I: PDA-15 (impervious)

Runoff = 10.91 cfs @ 12.17 hrs, Volume= 0.966 af, Depth= 8.35"
 Routed to Pond B-15 : Basin #15

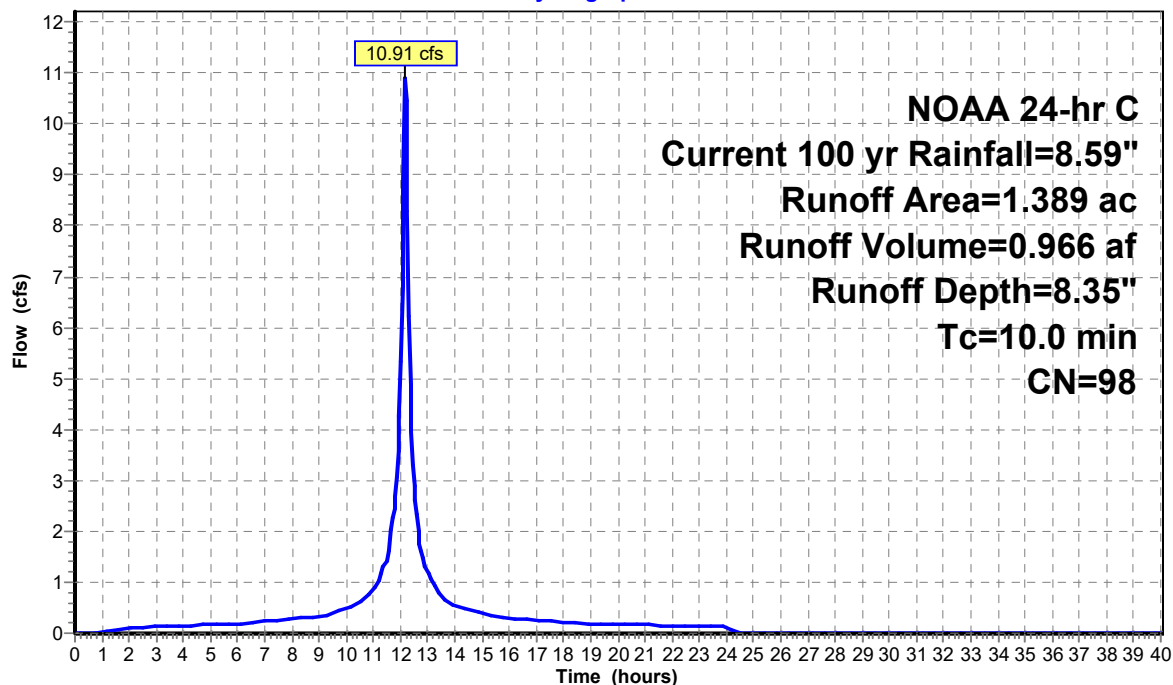
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 100 yr Rainfall=8.59"

Area (ac)	CN	Description
* 0.501	98	Pavement, HSG C
* 0.836	98	Roof, HSG C
* 0.052	98	Concrete, HSG C
1.389	98	Weighted Average
1.389		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 15I: PDA-15 (impervious)

Hydrograph



Summary for Subcatchment 15P: PDA-15 (pervious)

Runoff = 5.84 cfs @ 12.17 hrs, Volume= 0.444 af, Depth= 5.46"
 Routed to Pond B-15 : Basin #15

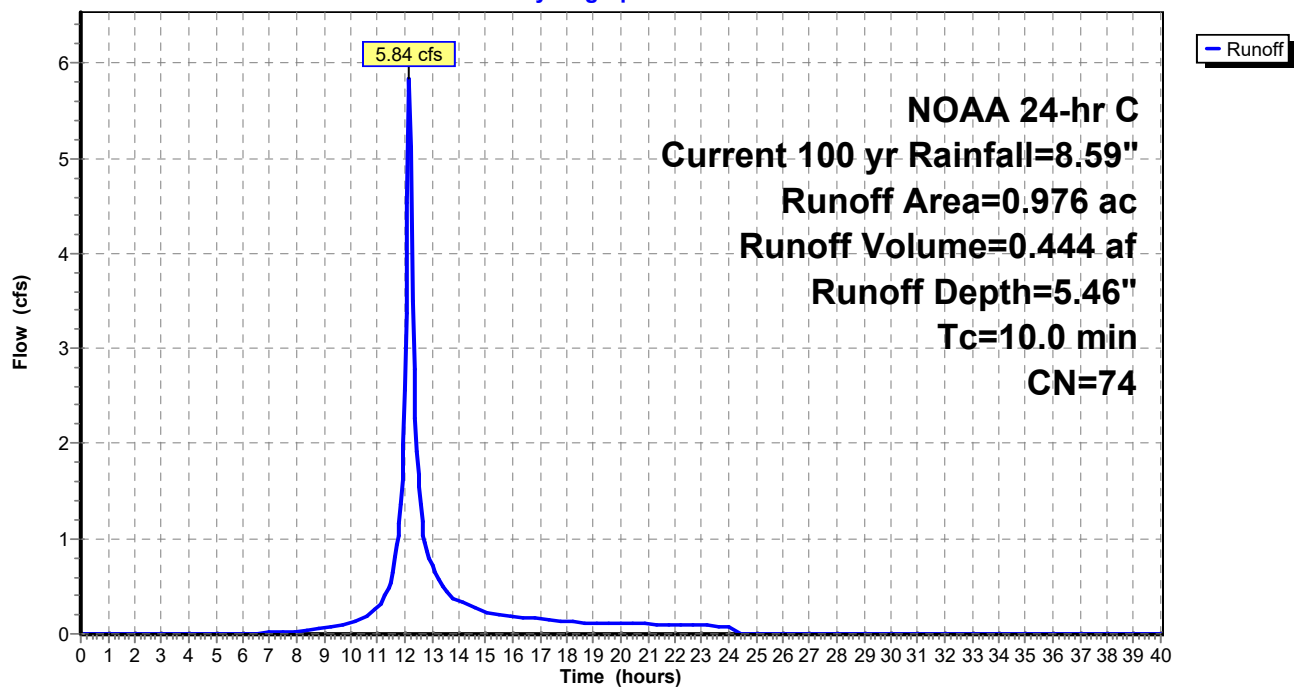
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 100 yr Rainfall=8.59"

Area (ac)	CN	Description
0.976	74	>75% Grass cover, Good, HSG C
0.976		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 15P: PDA-15 (pervious)

Hydrograph



Summary for Subcatchment 16A1: PDA-16A (impervious)

Runoff = 6.70 cfs @ 12.17 hrs, Volume= 0.594 af, Depth= 8.35"
 Routed to Pond B-16A : Basin #16A

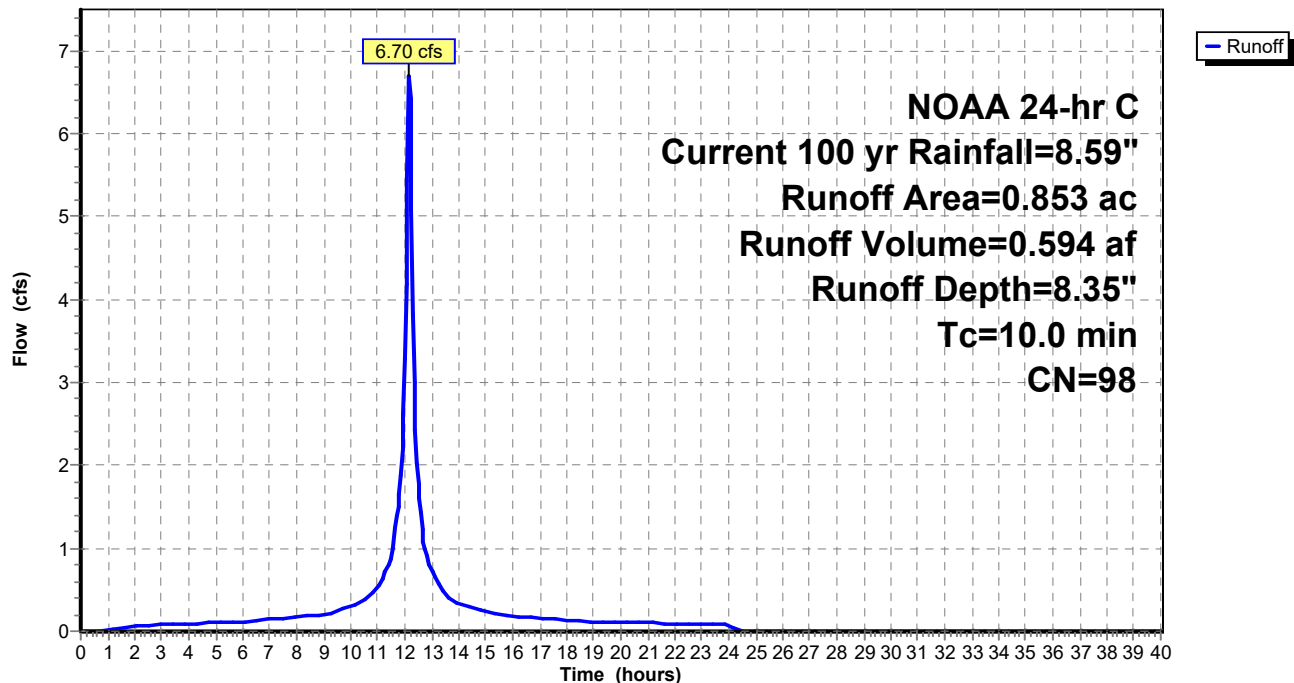
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 100 yr Rainfall=8.59"

Area (ac)	CN	Description
* 0.072	98	Pavement, HSG C
* 0.771	98	Roof, HSG C
* 0.010	98	Concrete, HSG C
0.853	98	Weighted Average
0.853		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 16A1: PDA-16A (impervious)

Hydrograph



Summary for Subcatchment 16AP: PDA-16A (pervious)

Runoff = 6.12 cfs @ 12.17 hrs, Volume= 0.465 af, Depth= 5.46"
 Routed to Pond B-16A : Basin #16A

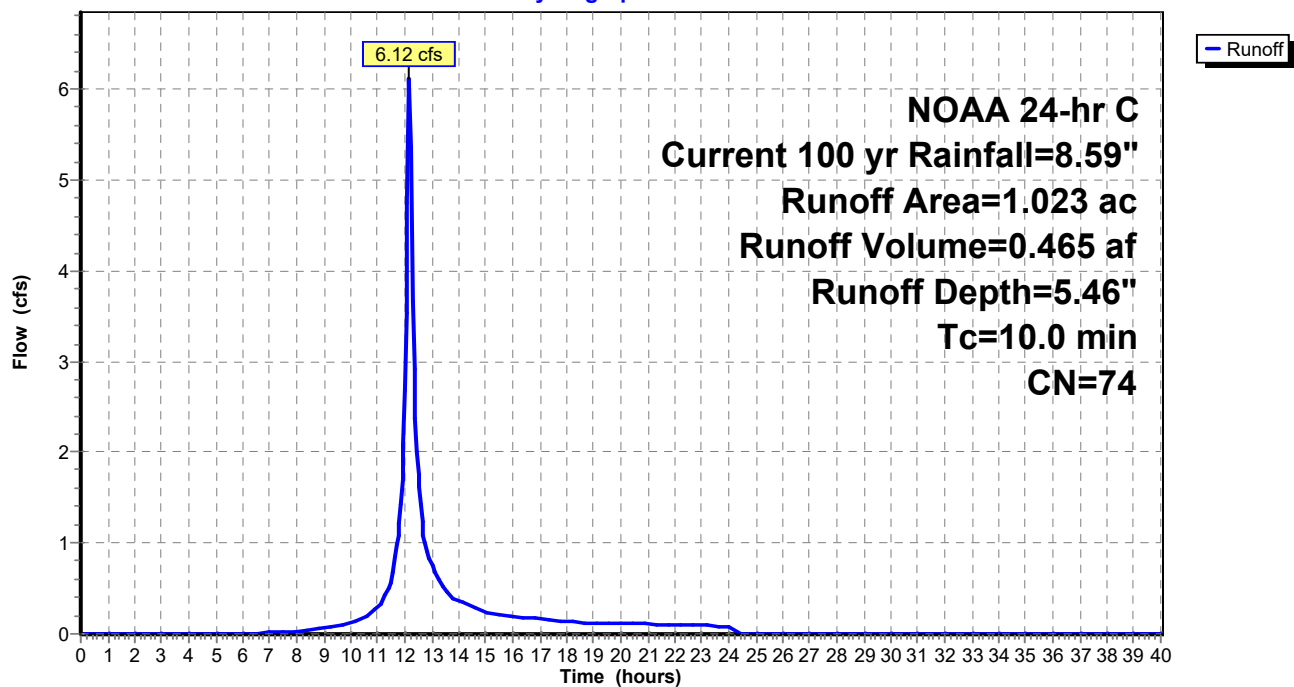
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 100 yr Rainfall=8.59"

Area (ac)	CN	Description
1.023	74	>75% Grass cover, Good, HSG C
1.023		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 16AP: PDA-16A (pervious)

Hydrograph



Summary for Subcatchment 16BI: PDA-16B (impervious)

Runoff = 6.45 cfs @ 12.17 hrs, Volume= 0.571 af, Depth= 8.35"
 Routed to Pond B-16B : Basin #16B

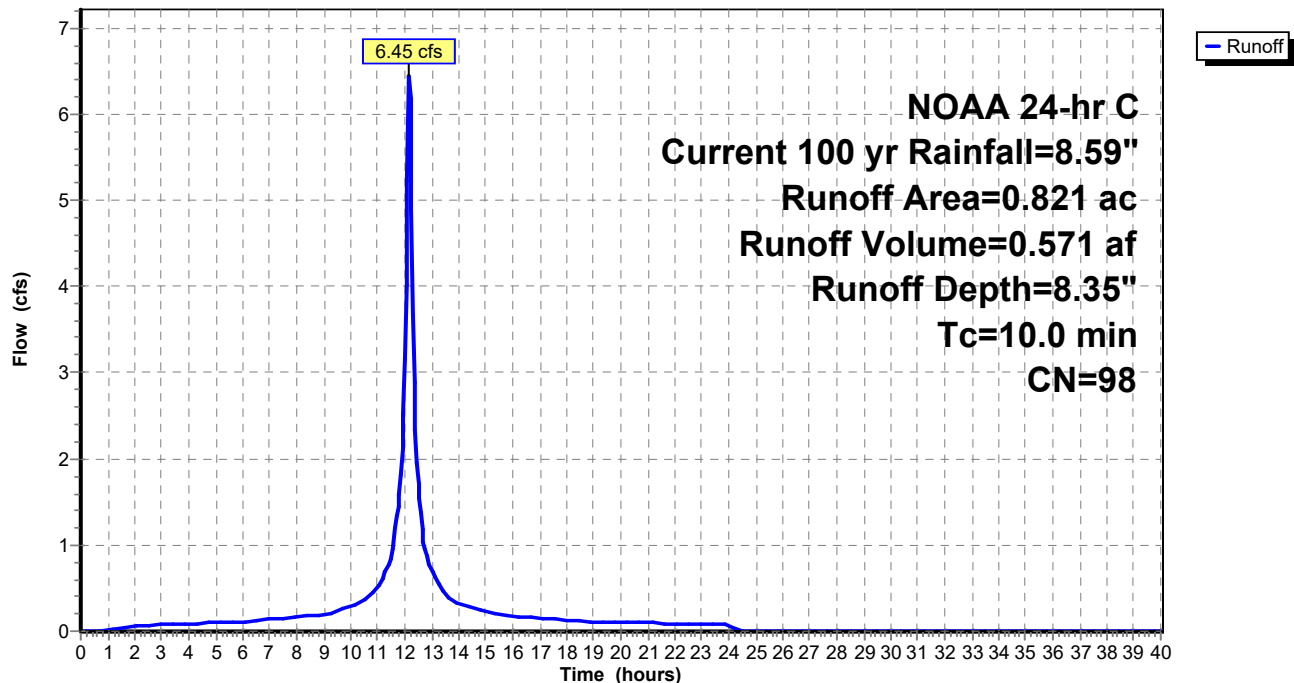
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 100 yr Rainfall=8.59"

Area (ac)	CN	Description
* 0.621	98	Pavement, HSG C
* 0.064	98	Roof, HSG C
* 0.136	98	Concrete, HSG C
0.821	98	Weighted Average
0.821		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 16BI: PDA-16B (impervious)

Hydrograph



Summary for Subcatchment 16BP: PDA-16B (pervious)

Runoff = 6.32 cfs @ 12.17 hrs, Volume= 0.480 af, Depth= 5.46"
 Routed to Pond B-16B : Basin #16B

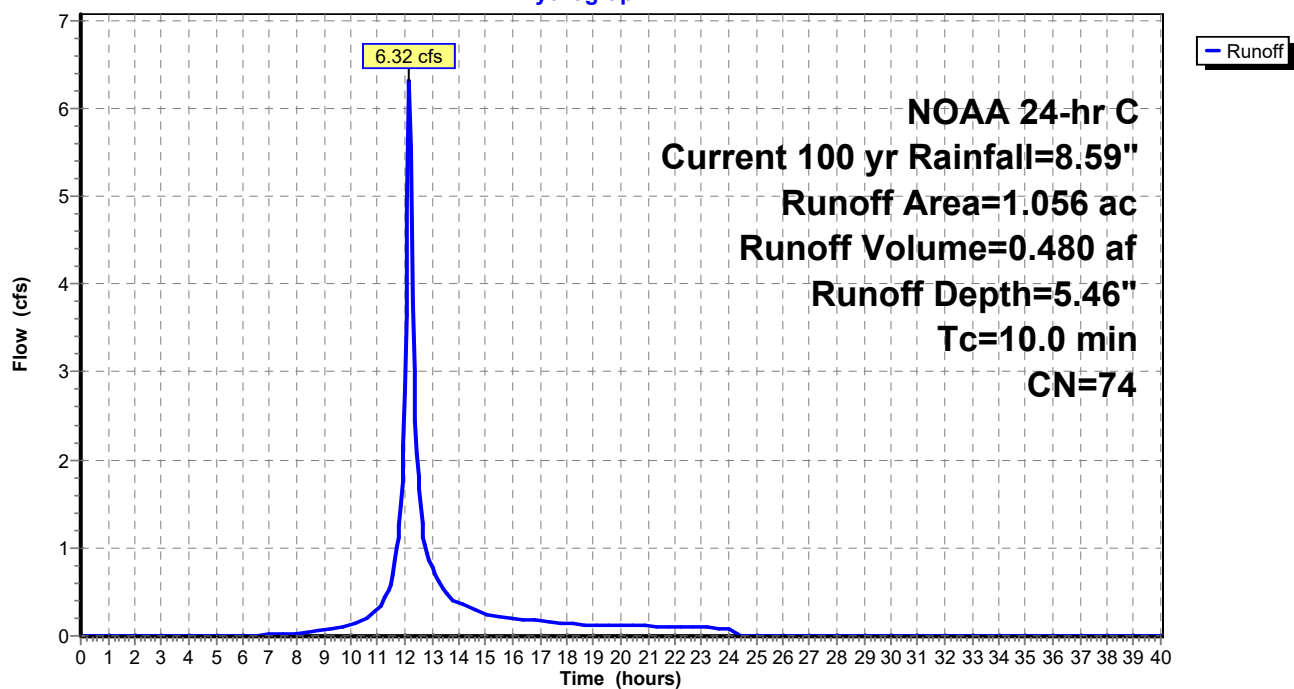
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 100 yr Rainfall=8.59"

Area (ac)	CN	Description
1.056	74	>75% Grass cover, Good, HSG C
1.056		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 16BP: PDA-16B (pervious)

Hydrograph



Summary for Subcatchment 17A: PDA-17A (impervious)

Runoff = 1.52 cfs @ 12.17 hrs, Volume= 0.134 af, Depth= 8.35"
 Routed to Pond B-17A : Basin #17A

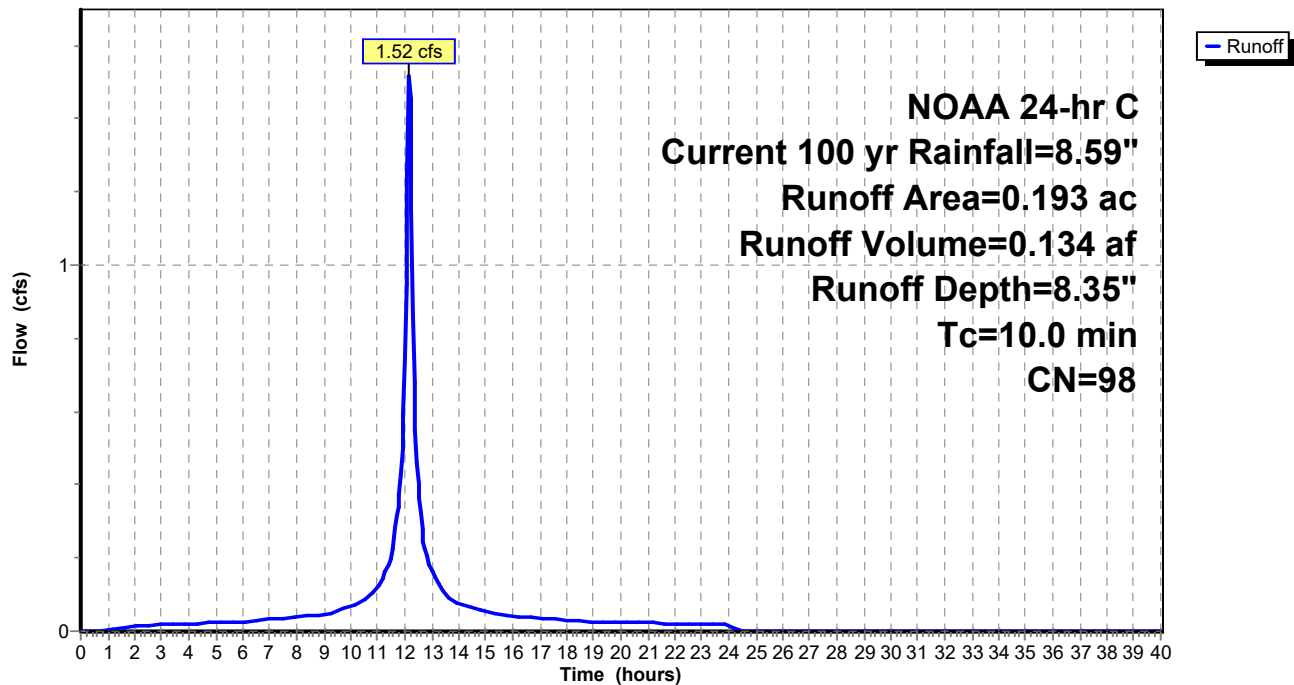
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 100 yr Rainfall=8.59"

Area (ac)	CN	Description
* 0.193	98	Roof, HSG C
0.000	98	Paved roads w/curbs & sewers, HSG C
* 0.000	98	Concrete, HSG C
0.193	98	Weighted Average
0.193		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 17A: PDA-17A (impervious)

Hydrograph



Summary for Subcatchment 17AP: PDA-17A (pervious)

Runoff = 6.77 cfs @ 12.17 hrs, Volume= 0.514 af, Depth= 5.46"
 Routed to Pond B-17A : Basin #17A

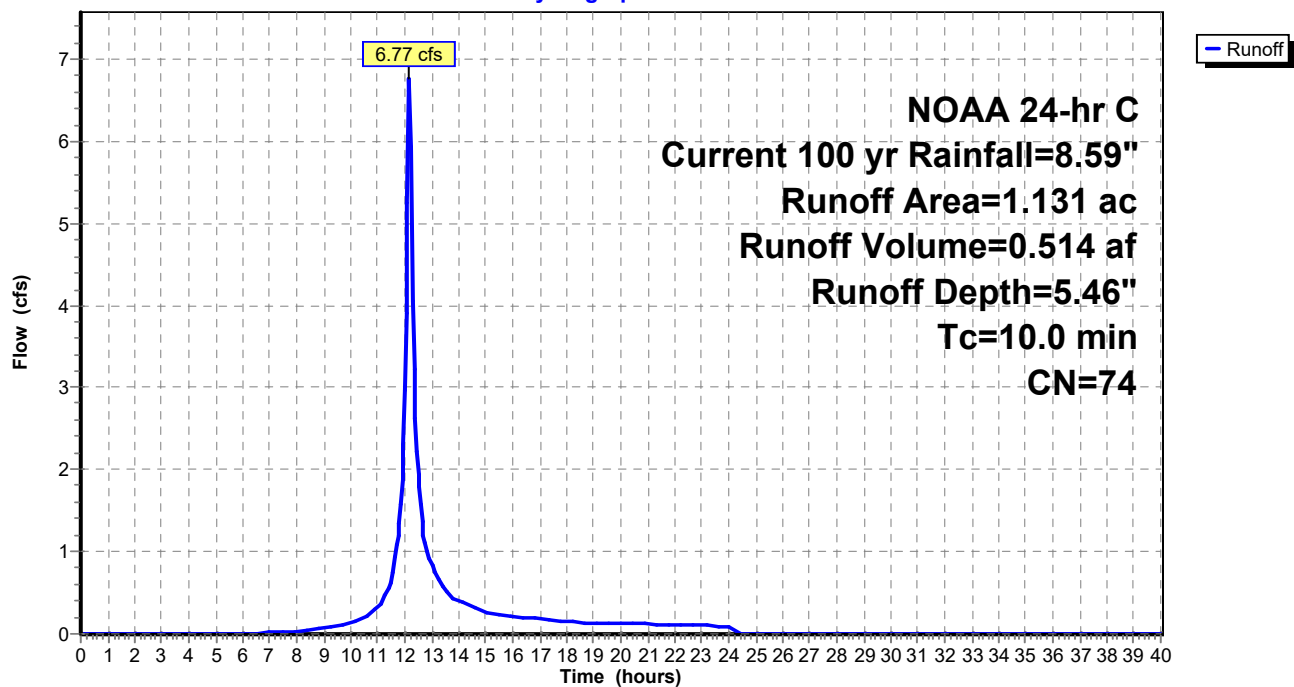
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 100 yr Rainfall=8.59"

Area (ac)	CN	Description
1.131	74	>75% Grass cover, Good, HSG C
1.131		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 17AP: PDA-17A (pervious)

Hydrograph



Summary for Subcatchment 17BI: PDA-17B (impervious)

Runoff = 4.04 cfs @ 12.17 hrs, Volume= 0.358 af, Depth= 8.35"
 Routed to Pond B-17B : Basin #17B

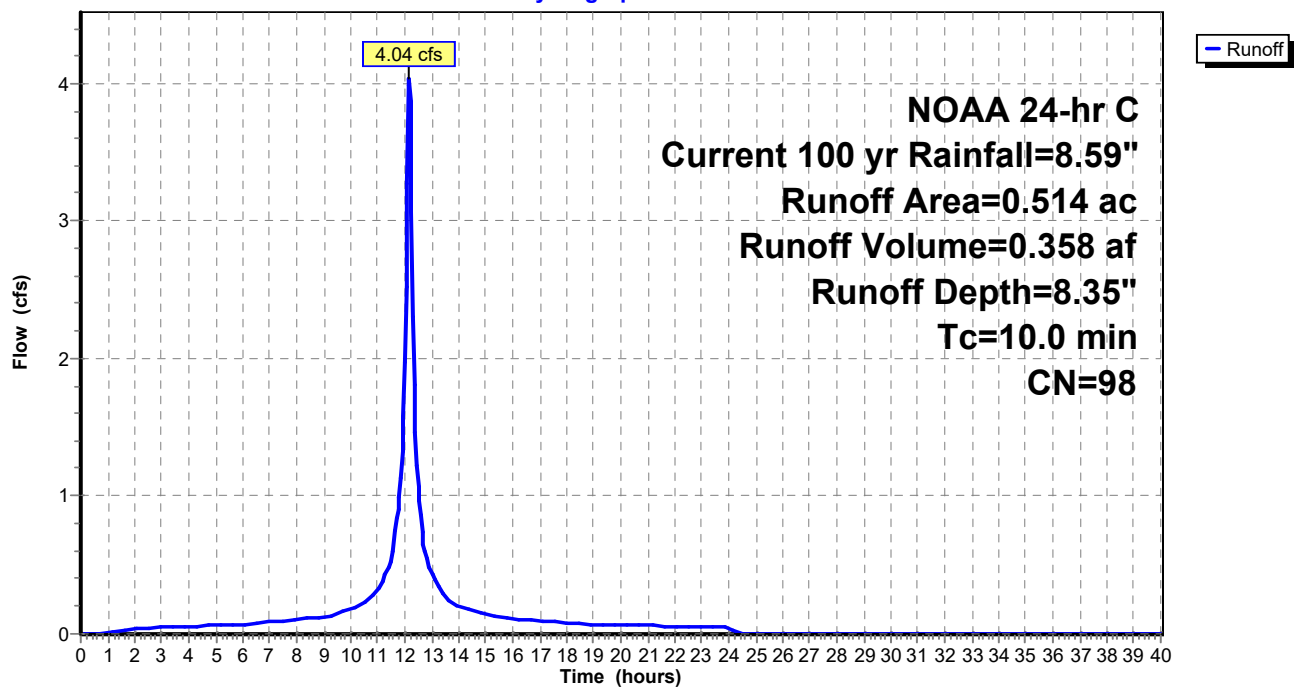
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 100 yr Rainfall=8.59"

Area (ac)	CN	Description
* 0.514	98	Roof, HSG C
0.514		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 17BI: PDA-17B (impervious)

Hydrograph



Summary for Subcatchment 17BP: PDA-17B (pervious)

Runoff = 5.21 cfs @ 12.17 hrs, Volume= 0.396 af, Depth= 5.46"
 Routed to Pond B-17B : Basin #17B

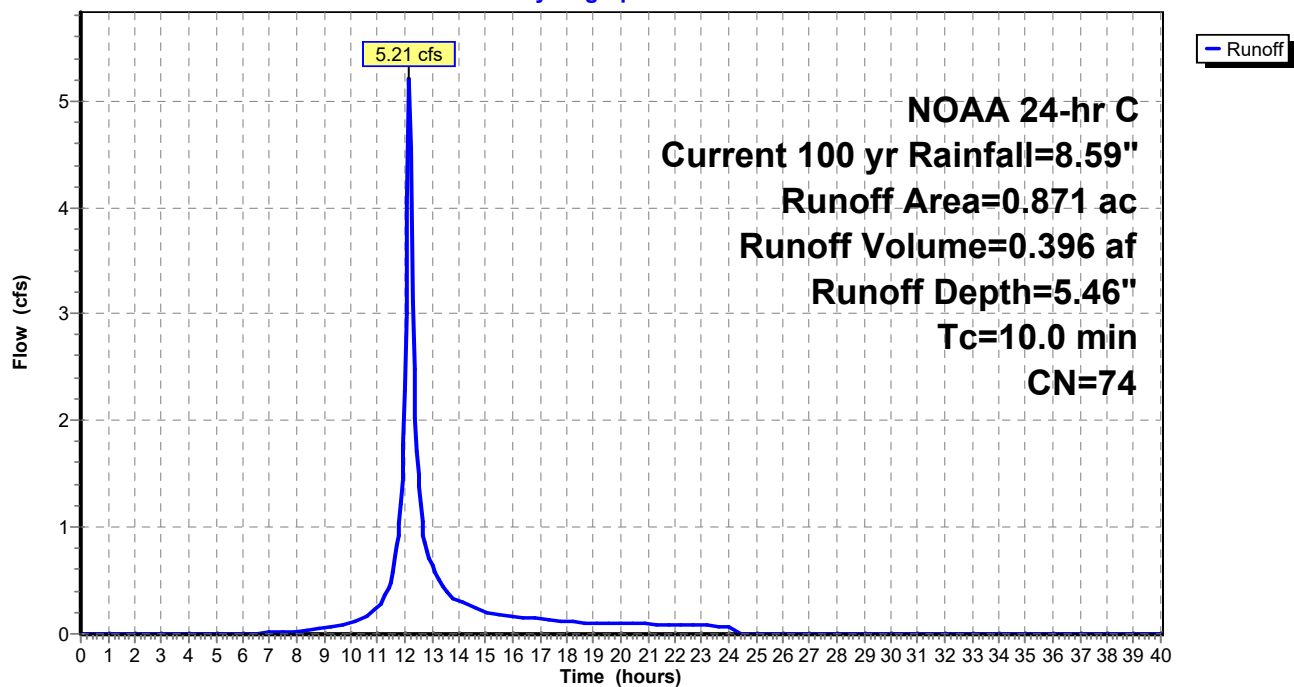
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 100 yr Rainfall=8.59"

Area (ac)	CN	Description
0.871	74	>75% Grass cover, Good, HSG C
0.871		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment 17BP: PDA-17B (pervious)

Hydrograph



Summary for Subcatchment UPDA-1: PDA-1 (undetained)

Runoff = 327.02 cfs @ 12.17 hrs, Volume= 24.859 af, Depth= 5.46"
 Routed to Link PDA-1 : Proposed Drainage Area #1

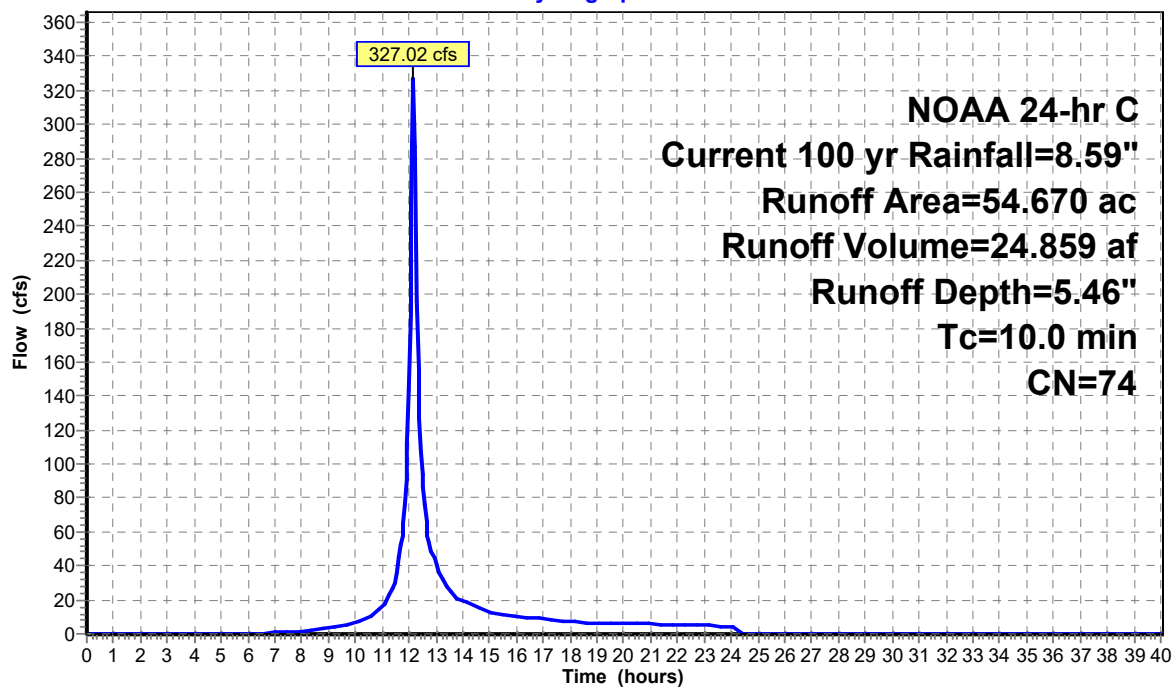
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C Current 100 yr Rainfall=8.59"

Area (ac)	CN	Description
54.670	74	>75% Grass cover, Good, HSG C
54.670		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,

Subcatchment UPDA-1: PDA-1 (undetained)

Hydrograph



Summary for Pond B-1: Basin #1

Inflow Area = 2.782 ac, 26.02% Impervious, Inflow Depth = 3.80" for Current 100 yr event
 Inflow = 5.84 cfs @ 12.45 hrs, Volume= 0.881 af
 Outflow = 3.40 cfs @ 12.72 hrs, Volume= 0.805 af, Atten= 42%, Lag= 16.0 min
 Primary = 3.40 cfs @ 12.72 hrs, Volume= 0.805 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 210.07' @ 12.72 hrs Surf.Area= 11,202 sf Storage= 11,448 cf

Plug-Flow detention time= 213.5 min calculated for 0.805 af (91% of inflow)
 Center-of-Mass det. time= 169.3 min (1,050.0 - 880.7)

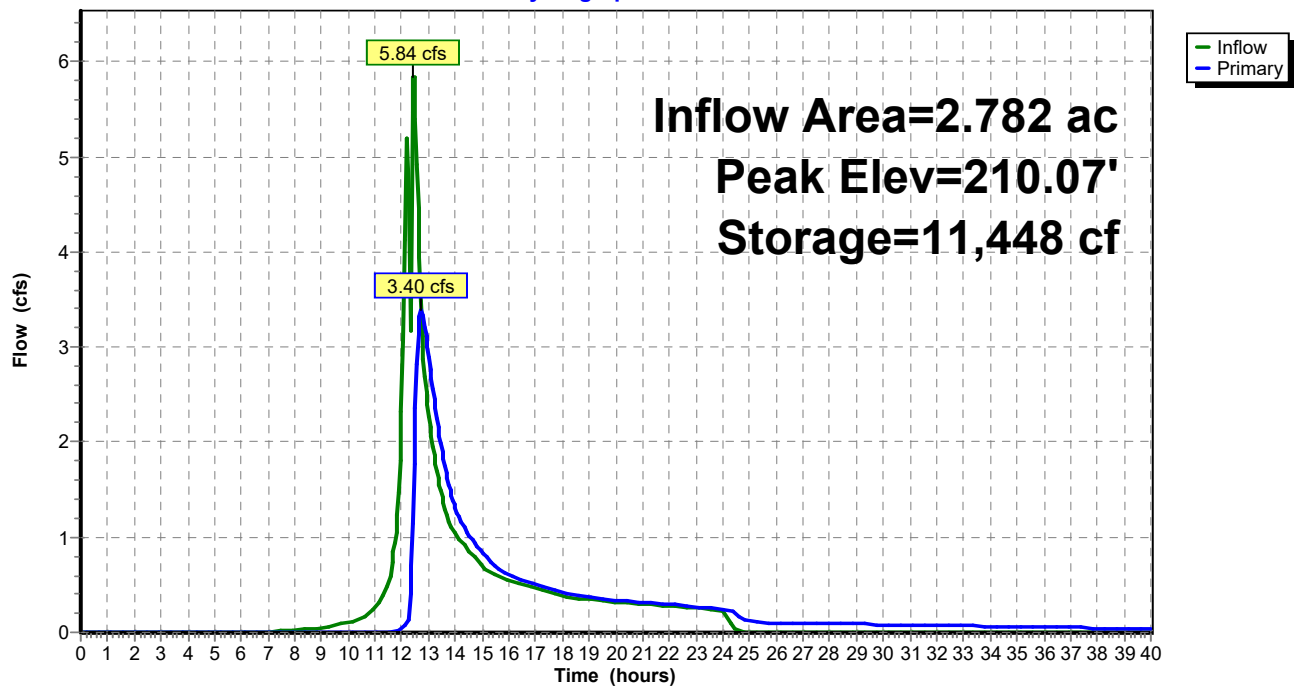
Volume	Invert	Avail.Storage	Storage Description
#1	209.00'	34,903 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
209.00	10,187	0	0
210.00	11,133	10,660	10,660
211.00	12,113	11,623	22,283
212.00	13,126	12,620	34,903

Device	Routing	Invert	Outlet Devices
#1	Primary	207.65'	18.0" Round Culvert L= 276.0' Ke= 0.500 Inlet / Outlet Invert= 207.65' / 204.00' S= 0.0132 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	209.17'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	209.67'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	210.80'	50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=3.39 cfs @ 12.72 hrs HW=210.07' (Free Discharge)

1=Culvert (Passes 3.39 cfs of 11.00 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.15 cfs @ 4.29 fps)
 3=Sharp-Crested Rectangular Weir (Weir Controls 3.24 cfs @ 2.07 fps)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-1: Basin #1**Hydrograph**

Stage-Discharge for Pond B-1: Basin #1

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
209.00	0.00	209.52	0.08	210.04	3.03	210.56	10.68
209.01	0.00	209.53	0.08	210.05	3.15	210.57	10.85
209.02	0.00	209.54	0.08	210.06	3.27	210.58	11.03
209.03	0.00	209.55	0.09	210.07	3.39	210.59	11.20
209.04	0.00	209.56	0.09	210.08	3.51	210.60	11.37
209.05	0.00	209.57	0.09	210.09	3.63	210.61	11.55
209.06	0.00	209.58	0.09	210.10	3.76	210.62	11.73
209.07	0.00	209.59	0.09	210.11	3.88	210.63	11.90
209.08	0.00	209.60	0.09	210.12	4.01	210.64	12.08
209.09	0.00	209.61	0.10	210.13	4.14	210.65	12.26
209.10	0.00	209.62	0.10	210.14	4.27	210.66	12.44
209.11	0.00	209.63	0.10	210.15	4.40	210.67	12.60
209.12	0.00	209.64	0.10	210.16	4.53	210.68	12.61
209.13	0.00	209.65	0.10	210.17	4.66	210.69	12.63
209.14	0.00	209.66	0.10	210.18	4.80	210.70	12.64
209.15	0.00	209.67	0.10	210.19	4.93	210.71	12.65
209.16	0.00	209.68	0.12	210.20	5.07	210.72	12.66
209.17	0.00	209.69	0.14	210.21	5.21	210.73	12.67
209.18	0.00	209.70	0.17	210.22	5.35	210.74	12.69
209.19	0.00	209.71	0.21	210.23	5.49	210.75	12.70
209.20	0.00	209.72	0.26	210.24	5.63	210.76	12.71
209.21	0.00	209.73	0.30	210.25	5.77	210.77	12.72
209.22	0.00	209.74	0.35	210.26	5.92	210.78	12.73
209.23	0.01	209.75	0.41	210.27	6.06	210.79	12.75
209.24	0.01	209.76	0.47	210.28	6.21	210.80	12.76
209.25	0.01	209.77	0.53	210.29	6.35	210.81	12.89
209.26	0.01	209.78	0.59	210.30	6.50	210.82	13.11
209.27	0.02	209.79	0.66	210.31	6.65	210.83	13.40
209.28	0.02	209.80	0.73	210.32	6.80	210.84	13.74
209.29	0.02	209.81	0.80	210.33	6.95	210.85	14.13
209.30	0.03	209.82	0.88	210.34	7.10	210.86	14.56
209.31	0.03	209.83	0.95	210.35	7.26	210.87	15.02
209.32	0.03	209.84	1.03	210.36	7.41	210.88	15.51
209.33	0.04	209.85	1.11	210.37	7.56	210.89	16.04
209.34	0.04	209.86	1.20	210.38	7.72	210.90	16.60
209.35	0.05	209.87	1.28	210.39	7.88	210.91	17.18
209.36	0.05	209.88	1.37	210.40	8.03	210.92	17.79
209.37	0.05	209.89	1.46	210.41	8.19	210.93	18.43
209.38	0.05	209.90	1.56	210.42	8.35	210.94	19.10
209.39	0.06	209.91	1.65	210.43	8.51	210.95	19.78
209.40	0.06	209.92	1.75	210.44	8.67	210.96	20.50
209.41	0.06	209.93	1.84	210.45	8.84	210.97	21.23
209.42	0.06	209.94	1.94	210.46	9.00	210.98	21.99
209.43	0.06	209.95	2.05	210.47	9.16	210.99	22.76
209.44	0.07	209.96	2.15	210.48	9.33	211.00	23.56
209.45	0.07	209.97	2.25	210.49	9.50	211.01	24.42
209.46	0.07	209.98	2.36	210.50	9.66	211.02	25.31
209.47	0.07	209.99	2.47	210.51	9.83	211.03	26.21
209.48	0.07	210.00	2.58	210.52	10.00	211.04	27.15
209.49	0.08	210.01	2.69	210.53	10.17	211.05	28.11
209.50	0.08	210.02	2.80	210.54	10.34	211.06	29.10
209.51	0.08	210.03	2.92	210.55	10.51	211.07	30.11

Stage-Discharge for Pond B-1: Basin #1 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
211.08	31.14	211.60	113.25
211.09	32.20	211.61	115.18
211.10	33.28	211.62	117.13
211.11	34.39	211.63	119.08
211.12	35.53	211.64	121.06
211.13	36.68	211.65	123.04
211.14	37.86	211.66	125.04
211.15	39.07	211.67	127.05
211.16	40.30	211.68	129.07
211.17	41.55	211.69	131.10
211.18	42.83	211.70	133.15
211.19	44.14	211.71	135.22
211.20	45.46	211.72	137.29
211.21	46.84	211.73	139.38
211.22	48.24	211.74	141.48
211.23	49.67	211.75	143.59
211.24	51.13	211.76	145.72
211.25	52.61	211.77	147.85
211.26	54.12	211.78	150.00
211.27	55.65	211.79	152.17
211.28	57.21	211.80	154.34
211.29	58.80	211.81	156.48
211.30	60.41	211.82	158.62
211.31	62.05	211.83	160.78
211.32	63.72	211.84	162.95
211.33	65.41	211.85	165.12
211.34	67.13	211.86	167.31
211.35	68.88	211.87	169.51
211.36	70.65	211.88	171.72
211.37	72.45	211.89	173.94
211.38	74.28	211.90	176.17
211.39	76.13	211.91	178.41
211.40	78.01	211.92	180.66
211.41	79.65	211.93	182.92
211.42	81.30	211.94	185.19
211.43	82.97	211.95	187.48
211.44	84.65	211.96	189.77
211.45	86.34	211.97	192.07
211.46	88.04	211.98	194.38
211.47	89.76	211.99	196.70
211.48	91.49	212.00	199.03
211.49	93.24		
211.50	94.99		
211.51	96.76		
211.52	98.55		
211.53	100.34		
211.54	102.15		
211.55	103.97		
211.56	105.80		
211.57	107.65		
211.58	109.50		
211.59	111.37		

Stage-Area-Storage for Pond B-1: Basin #1

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
209.00	10,187	0	209.52	10,679	5,425
209.01	10,196	102	209.53	10,688	5,532
209.02	10,206	204	209.54	10,698	5,639
209.03	10,215	306	209.55	10,707	5,746
209.04	10,225	408	209.56	10,717	5,853
209.05	10,234	511	209.57	10,726	5,960
209.06	10,244	613	209.58	10,736	6,068
209.07	10,253	715	209.59	10,745	6,175
209.08	10,263	818	209.60	10,755	6,282
209.09	10,272	921	209.61	10,764	6,390
209.10	10,282	1,023	209.62	10,774	6,498
209.11	10,291	1,126	209.63	10,783	6,606
209.12	10,301	1,229	209.64	10,792	6,713
209.13	10,310	1,332	209.65	10,802	6,821
209.14	10,319	1,435	209.66	10,811	6,929
209.15	10,329	1,539	209.67	10,821	7,038
209.16	10,338	1,642	209.68	10,830	7,146
209.17	10,348	1,745	209.69	10,840	7,254
209.18	10,357	1,849	209.70	10,849	7,363
209.19	10,367	1,953	209.71	10,859	7,471
209.20	10,376	2,056	209.72	10,868	7,580
209.21	10,386	2,160	209.73	10,878	7,689
209.22	10,395	2,264	209.74	10,887	7,797
209.23	10,405	2,368	209.75	10,897	7,906
209.24	10,414	2,472	209.76	10,906	8,015
209.25	10,424	2,576	209.77	10,915	8,124
209.26	10,433	2,681	209.78	10,925	8,234
209.27	10,442	2,785	209.79	10,934	8,343
209.28	10,452	2,889	209.80	10,944	8,452
209.29	10,461	2,994	209.81	10,953	8,562
209.30	10,471	3,099	209.82	10,963	8,671
209.31	10,480	3,203	209.83	10,972	8,781
209.32	10,490	3,308	209.84	10,982	8,891
209.33	10,499	3,413	209.85	10,991	9,001
209.34	10,509	3,518	209.86	11,001	9,111
209.35	10,518	3,623	209.87	11,010	9,221
209.36	10,528	3,729	209.88	11,019	9,331
209.37	10,537	3,834	209.89	11,029	9,441
209.38	10,546	3,939	209.90	11,038	9,551
209.39	10,556	4,045	209.91	11,048	9,662
209.40	10,565	4,150	209.92	11,057	9,772
209.41	10,575	4,256	209.93	11,067	9,883
209.42	10,584	4,362	209.94	11,076	9,994
209.43	10,594	4,468	209.95	11,086	10,105
209.44	10,603	4,574	209.96	11,095	10,215
209.45	10,613	4,680	209.97	11,105	10,326
209.46	10,622	4,786	209.98	11,114	10,438
209.47	10,632	4,892	209.99	11,124	10,549
209.48	10,641	4,999	210.00	11,133	10,660
209.49	10,651	5,105	210.01	11,143	10,771
209.50	10,660	5,212	210.02	11,153	10,883
209.51	10,669	5,318	210.03	11,162	10,994

Stage-Area-Storage for Pond B-1: Basin #1 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
210.04	11,172	11,106	210.56	11,682	17,048
210.05	11,182	11,218	210.57	11,692	17,165
210.06	11,192	11,330	210.58	11,701	17,282
210.07	11,202	11,442	210.59	11,711	17,399
210.08	11,211	11,554	210.60	11,721	17,516
210.09	11,221	11,666	210.61	11,731	17,633
210.10	11,231	11,778	210.62	11,741	17,751
210.11	11,241	11,891	210.63	11,750	17,868
210.12	11,251	12,003	210.64	11,760	17,986
210.13	11,260	12,116	210.65	11,770	18,103
210.14	11,270	12,228	210.66	11,780	18,221
210.15	11,280	12,341	210.67	11,790	18,339
210.16	11,290	12,454	210.68	11,799	18,457
210.17	11,300	12,567	210.69	11,809	18,575
210.18	11,309	12,680	210.70	11,819	18,693
210.19	11,319	12,793	210.71	11,829	18,811
210.20	11,329	12,906	210.72	11,839	18,930
210.21	11,339	13,020	210.73	11,848	19,048
210.22	11,349	13,133	210.74	11,858	19,167
210.23	11,358	13,247	210.75	11,868	19,285
210.24	11,368	13,360	210.76	11,878	19,404
210.25	11,378	13,474	210.77	11,888	19,523
210.26	11,388	13,588	210.78	11,897	19,642
210.27	11,398	13,702	210.79	11,907	19,761
210.28	11,407	13,816	210.80	11,917	19,880
210.29	11,417	13,930	210.81	11,927	19,999
210.30	11,427	14,044	210.82	11,937	20,119
210.31	11,437	14,158	210.83	11,946	20,238
210.32	11,447	14,273	210.84	11,956	20,357
210.33	11,456	14,387	210.85	11,966	20,477
210.34	11,466	14,502	210.86	11,976	20,597
210.35	11,476	14,617	210.87	11,986	20,717
210.36	11,486	14,731	210.88	11,995	20,836
210.37	11,496	14,846	210.89	12,005	20,956
210.38	11,505	14,961	210.90	12,015	21,077
210.39	11,515	15,076	210.91	12,025	21,197
210.40	11,525	15,192	210.92	12,035	21,317
210.41	11,535	15,307	210.93	12,044	21,437
210.42	11,545	15,422	210.94	12,054	21,558
210.43	11,554	15,538	210.95	12,064	21,679
210.44	11,564	15,653	210.96	12,074	21,799
210.45	11,574	15,769	210.97	12,084	21,920
210.46	11,584	15,885	210.98	12,093	22,041
210.47	11,594	16,001	210.99	12,103	22,162
210.48	11,603	16,117	211.00	12,113	22,283
210.49	11,613	16,233	211.01	12,123	22,404
210.50	11,623	16,349	211.02	12,133	22,525
210.51	11,633	16,465	211.03	12,143	22,647
210.52	11,643	16,582	211.04	12,154	22,768
210.53	11,652	16,698	211.05	12,164	22,890
210.54	11,662	16,815	211.06	12,174	23,012
210.55	11,672	16,931	211.07	12,184	23,133

Stage-Area-Storage for Pond B-1: Basin #1 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
211.08	12,194	23,255	211.60	12,721	29,733
211.09	12,204	23,377	211.61	12,731	29,860
211.10	12,214	23,499	211.62	12,741	29,988
211.11	12,224	23,622	211.63	12,751	30,115
211.12	12,235	23,744	211.64	12,761	30,243
211.13	12,245	23,866	211.65	12,771	30,370
211.14	12,255	23,989	211.66	12,782	30,498
211.15	12,265	24,111	211.67	12,792	30,626
211.16	12,275	24,234	211.68	12,802	30,754
211.17	12,285	24,357	211.69	12,812	30,882
211.18	12,295	24,480	211.70	12,822	31,010
211.19	12,305	24,603	211.71	12,832	31,139
211.20	12,316	24,726	211.72	12,842	31,267
211.21	12,326	24,849	211.73	12,852	31,395
211.22	12,336	24,972	211.74	12,863	31,524
211.23	12,346	25,096	211.75	12,873	31,653
211.24	12,356	25,219	211.76	12,883	31,781
211.25	12,366	25,343	211.77	12,893	31,910
211.26	12,376	25,467	211.78	12,903	32,039
211.27	12,387	25,590	211.79	12,913	32,168
211.28	12,397	25,714	211.80	12,923	32,298
211.29	12,407	25,838	211.81	12,934	32,427
211.30	12,417	25,962	211.82	12,944	32,556
211.31	12,427	26,087	211.83	12,954	32,686
211.32	12,437	26,211	211.84	12,964	32,815
211.33	12,447	26,335	211.85	12,974	32,945
211.34	12,457	26,460	211.86	12,984	33,075
211.35	12,468	26,585	211.87	12,994	33,205
211.36	12,478	26,709	211.88	13,004	33,335
211.37	12,488	26,834	211.89	13,015	33,465
211.38	12,498	26,959	211.90	13,025	33,595
211.39	12,508	27,084	211.91	13,035	33,725
211.40	12,518	27,209	211.92	13,045	33,856
211.41	12,528	27,334	211.93	13,055	33,986
211.42	12,538	27,460	211.94	13,065	34,117
211.43	12,549	27,585	211.95	13,075	34,247
211.44	12,559	27,711	211.96	13,085	34,378
211.45	12,569	27,836	211.97	13,096	34,509
211.46	12,579	27,962	211.98	13,106	34,640
211.47	12,589	28,088	211.99	13,116	34,771
211.48	12,599	28,214	212.00	13,126	34,903
211.49	12,609	28,340			
211.50	12,620	28,466			
211.51	12,630	28,592			
211.52	12,640	28,719			
211.53	12,650	28,845			
211.54	12,660	28,972			
211.55	12,670	29,098			
211.56	12,680	29,225			
211.57	12,690	29,352			
211.58	12,701	29,479			
211.59	12,711	29,606			

Summary for Pond B-10: Basin #10

Inflow Area = 1.674 ac, 56.63% Impervious, Inflow Depth = 7.10" for Current 100 yr event
 Inflow = 11.78 cfs @ 12.17 hrs, Volume= 0.990 af
 Outflow = 3.49 cfs @ 12.47 hrs, Volume= 0.898 af, Atten= 70%, Lag= 18.2 min
 Primary = 3.49 cfs @ 12.47 hrs, Volume= 0.898 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 182.19' @ 12.47 hrs Surf.Area= 6,888 sf Storage= 17,610 cf

Plug-Flow detention time= 147.9 min calculated for 0.896 af (91% of inflow)
 Center-of-Mass det. time= 99.0 min (868.8 - 769.8)

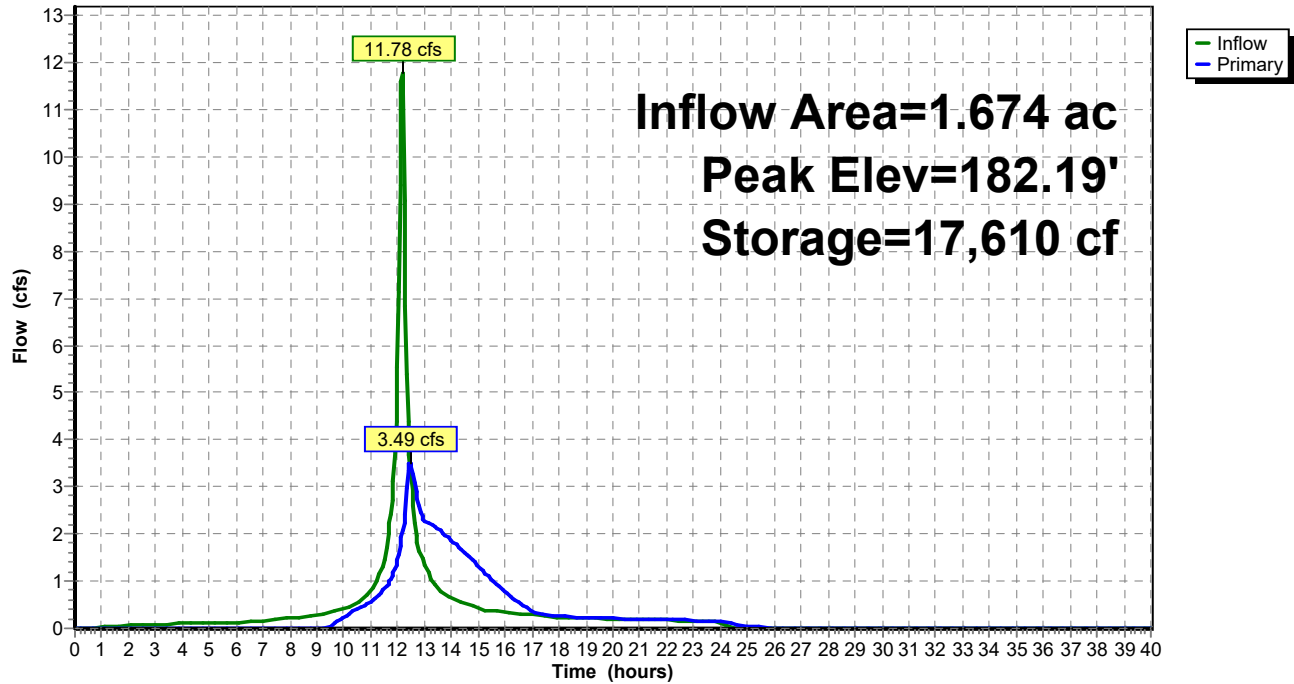
Volume	Invert	Avail.Storage	Storage Description
#1	179.00'	23,473 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
179.00	4,220	0	0
180.00	5,003	4,612	4,612
181.00	5,833	5,418	10,030
182.00	6,710	6,272	16,301
183.00	7,633	7,172	23,473

Device	Routing	Invert	Outlet Devices
#1	Primary	177.65'	18.0" Round Culvert L= 52.0' Ke= 0.500 Inlet / Outlet Invert= 177.65' / 176.00' S= 0.0317 ' S= 0.0317 ' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	179.88'	24.0" W x 2.0" H Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	182.00'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	182.95'	50.0' long + 3.0 ' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=3.47 cfs @ 12.47 hrs HW=182.19' (Free Discharge)

1=Culvert (Passes 3.47 cfs of 16.57 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 2.40 cfs @ 7.19 fps)
 3=Sharp-Crested Rectangular Weir (Weir Controls 1.08 cfs @ 1.43 fps)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-10: Basin #10**Hydrograph**

Stage-Discharge for Pond B-10: Basin #10

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
179.00	0.00	179.52	0.00	180.04	0.41	180.56	1.24
179.01	0.00	179.53	0.00	180.05	0.45	180.57	1.25
179.02	0.00	179.54	0.00	180.06	0.48	180.58	1.26
179.03	0.00	179.55	0.00	180.07	0.51	180.59	1.27
179.04	0.00	179.56	0.00	180.08	0.54	180.60	1.28
179.05	0.00	179.57	0.00	180.09	0.56	180.61	1.29
179.06	0.00	179.58	0.00	180.10	0.58	180.62	1.30
179.07	0.00	179.59	0.00	180.11	0.61	180.63	1.31
179.08	0.00	179.60	0.00	180.12	0.63	180.64	1.32
179.09	0.00	179.61	0.00	180.13	0.65	180.65	1.33
179.10	0.00	179.62	0.00	180.14	0.67	180.66	1.34
179.11	0.00	179.63	0.00	180.15	0.69	180.67	1.35
179.12	0.00	179.64	0.00	180.16	0.71	180.68	1.36
179.13	0.00	179.65	0.00	180.17	0.72	180.69	1.37
179.14	0.00	179.66	0.00	180.18	0.74	180.70	1.38
179.15	0.00	179.67	0.00	180.19	0.76	180.71	1.39
179.16	0.00	179.68	0.00	180.20	0.78	180.72	1.40
179.17	0.00	179.69	0.00	180.21	0.79	180.73	1.40
179.18	0.00	179.70	0.00	180.22	0.81	180.74	1.41
179.19	0.00	179.71	0.00	180.23	0.83	180.75	1.42
179.20	0.00	179.72	0.00	180.24	0.84	180.76	1.43
179.21	0.00	179.73	0.00	180.25	0.86	180.77	1.44
179.22	0.00	179.74	0.00	180.26	0.87	180.78	1.45
179.23	0.00	179.75	0.00	180.27	0.89	180.79	1.46
179.24	0.00	179.76	0.00	180.28	0.90	180.80	1.47
179.25	0.00	179.77	0.00	180.29	0.91	180.81	1.48
179.26	0.00	179.78	0.00	180.30	0.93	180.82	1.48
179.27	0.00	179.79	0.00	180.31	0.94	180.83	1.49
179.28	0.00	179.80	0.00	180.32	0.96	180.84	1.50
179.29	0.00	179.81	0.00	180.33	0.97	180.85	1.51
179.30	0.00	179.82	0.00	180.34	0.98	180.86	1.52
179.31	0.00	179.83	0.00	180.35	1.00	180.87	1.53
179.32	0.00	179.84	0.00	180.36	1.01	180.88	1.54
179.33	0.00	179.85	0.00	180.37	1.02	180.89	1.54
179.34	0.00	179.86	0.00	180.38	1.03	180.90	1.55
179.35	0.00	179.87	0.00	180.39	1.05	180.91	1.56
179.36	0.00	179.88	0.00	180.40	1.06	180.92	1.57
179.37	0.00	179.89	0.01	180.41	1.07	180.93	1.58
179.38	0.00	179.90	0.02	180.42	1.08	180.94	1.59
179.39	0.00	179.91	0.03	180.43	1.09	180.95	1.59
179.40	0.00	179.92	0.05	180.44	1.11	180.96	1.60
179.41	0.00	179.93	0.07	180.45	1.12	180.97	1.61
179.42	0.00	179.94	0.09	180.46	1.13	180.98	1.62
179.43	0.00	179.95	0.12	180.47	1.14	180.99	1.63
179.44	0.00	179.96	0.15	180.48	1.15	181.00	1.63
179.45	0.00	179.97	0.17	180.49	1.16	181.01	1.64
179.46	0.00	179.98	0.20	180.50	1.17	181.02	1.65
179.47	0.00	179.99	0.23	180.51	1.19	181.03	1.66
179.48	0.00	180.00	0.27	180.52	1.20	181.04	1.66
179.49	0.00	180.01	0.30	180.53	1.21	181.05	1.67
179.50	0.00	180.02	0.34	180.54	1.22	181.06	1.68
179.51	0.00	180.03	0.37	180.55	1.23	181.07	1.69

Stage-Discharge for Pond B-10: Basin #10 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
181.08	1.70	181.60	2.05	182.12	2.90	182.64	9.11
181.09	1.70	181.61	2.06	182.13	2.97	182.65	9.26
181.10	1.71	181.62	2.07	182.14	3.05	182.66	9.42
181.11	1.72	181.63	2.07	182.15	3.13	182.67	9.57
181.12	1.73	181.64	2.08	182.16	3.21	182.68	9.73
181.13	1.73	181.65	2.08	182.17	3.29	182.69	9.89
181.14	1.74	181.66	2.09	182.18	3.38	182.70	10.05
181.15	1.75	181.67	2.10	182.19	3.47	182.71	10.21
181.16	1.76	181.68	2.10	182.20	3.56	182.72	10.37
181.17	1.76	181.69	2.11	182.21	3.65	182.73	10.53
181.18	1.77	181.70	2.11	182.22	3.75	182.74	10.69
181.19	1.78	181.71	2.12	182.23	3.84	182.75	10.86
181.20	1.78	181.72	2.13	182.24	3.94	182.76	11.02
181.21	1.79	181.73	2.13	182.25	4.04	182.77	11.19
181.22	1.80	181.74	2.14	182.26	4.14	182.78	11.35
181.23	1.81	181.75	2.15	182.27	4.25	182.79	11.52
181.24	1.81	181.76	2.15	182.28	4.35	182.80	11.69
181.25	1.82	181.77	2.16	182.29	4.46	182.81	11.86
181.26	1.83	181.78	2.16	182.30	4.57	182.82	12.03
181.27	1.83	181.79	2.17	182.31	4.68	182.83	12.20
181.28	1.84	181.80	2.17	182.32	4.79	182.84	12.37
181.29	1.85	181.81	2.18	182.33	4.91	182.85	12.54
181.30	1.86	181.82	2.19	182.34	5.02	182.86	12.71
181.31	1.86	181.83	2.19	182.35	5.14	182.87	12.89
181.32	1.87	181.84	2.20	182.36	5.26	182.88	13.06
181.33	1.88	181.85	2.20	182.37	5.38	182.89	13.24
181.34	1.88	181.86	2.21	182.38	5.50	182.90	13.42
181.35	1.89	181.87	2.22	182.39	5.62	182.91	13.59
181.36	1.90	181.88	2.22	182.40	5.75	182.92	13.77
181.37	1.90	181.89	2.23	182.41	5.87	182.93	13.95
181.38	1.91	181.90	2.23	182.42	6.00	182.94	14.13
181.39	1.92	181.91	2.24	182.43	6.13	182.95	14.31
181.40	1.92	181.92	2.24	182.44	6.26	182.96	14.61
181.41	1.93	181.93	2.25	182.45	6.39	182.97	15.00
181.42	1.94	181.94	2.26	182.46	6.52	182.98	15.46
181.43	1.94	181.95	2.26	182.47	6.66	182.99	15.98
181.44	1.95	181.96	2.27	182.48	6.79	183.00	16.53
181.45	1.96	181.97	2.27	182.49	6.93		
181.46	1.96	181.98	2.28	182.50	7.07		
181.47	1.97	181.99	2.28	182.51	7.20		
181.48	1.98	182.00	2.29	182.52	7.34		
181.49	1.98	182.01	2.31	182.53	7.48		
181.50	1.99	182.02	2.34	182.54	7.63		
181.51	2.00	182.03	2.38	182.55	7.77		
181.52	2.00	182.04	2.42	182.56	7.91		
181.53	2.01	182.05	2.46	182.57	8.06		
181.54	2.02	182.06	2.52	182.58	8.21		
181.55	2.02	182.07	2.57	182.59	8.35		
181.56	2.03	182.08	2.63	182.60	8.50		
181.57	2.03	182.09	2.69	182.61	8.65		
181.58	2.04	182.10	2.76	182.62	8.80		
181.59	2.05	182.11	2.83	182.63	8.96		

Stage-Area-Storage for Pond B-10: Basin #10

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
179.00	4,220	0	179.52	4,627	2,300
179.01	4,228	42	179.53	4,635	2,347
179.02	4,236	85	179.54	4,643	2,393
179.03	4,243	127	179.55	4,651	2,439
179.04	4,251	169	179.56	4,658	2,486
179.05	4,259	212	179.57	4,666	2,533
179.06	4,267	255	179.58	4,674	2,579
179.07	4,275	297	179.59	4,682	2,626
179.08	4,283	340	179.60	4,690	2,673
179.09	4,290	383	179.61	4,698	2,720
179.10	4,298	426	179.62	4,705	2,767
179.11	4,306	469	179.63	4,713	2,814
179.12	4,314	512	179.64	4,721	2,861
179.13	4,322	555	179.65	4,729	2,908
179.14	4,330	598	179.66	4,737	2,956
179.15	4,337	642	179.67	4,745	3,003
179.16	4,345	685	179.68	4,752	3,051
179.17	4,353	729	179.69	4,760	3,098
179.18	4,361	772	179.70	4,768	3,146
179.19	4,369	816	179.71	4,776	3,194
179.20	4,377	860	179.72	4,784	3,241
179.21	4,384	903	179.73	4,792	3,289
179.22	4,392	947	179.74	4,799	3,337
179.23	4,400	991	179.75	4,807	3,385
179.24	4,408	1,035	179.76	4,815	3,433
179.25	4,416	1,079	179.77	4,823	3,482
179.26	4,424	1,124	179.78	4,831	3,530
179.27	4,431	1,168	179.79	4,839	3,578
179.28	4,439	1,212	179.80	4,846	3,627
179.29	4,447	1,257	179.81	4,854	3,675
179.30	4,455	1,301	179.82	4,862	3,724
179.31	4,463	1,346	179.83	4,870	3,772
179.32	4,471	1,390	179.84	4,878	3,821
179.33	4,478	1,435	179.85	4,886	3,870
179.34	4,486	1,480	179.86	4,893	3,919
179.35	4,494	1,525	179.87	4,901	3,968
179.36	4,502	1,570	179.88	4,909	4,017
179.37	4,510	1,615	179.89	4,917	4,066
179.38	4,518	1,660	179.90	4,925	4,115
179.39	4,525	1,705	179.91	4,933	4,164
179.40	4,533	1,751	179.92	4,940	4,214
179.41	4,541	1,796	179.93	4,948	4,263
179.42	4,549	1,841	179.94	4,956	4,313
179.43	4,557	1,887	179.95	4,964	4,362
179.44	4,565	1,933	179.96	4,972	4,412
179.45	4,572	1,978	179.97	4,980	4,462
179.46	4,580	2,024	179.98	4,987	4,512
179.47	4,588	2,070	179.99	4,995	4,562
179.48	4,596	2,116	180.00	5,003	4,612
179.49	4,604	2,162	180.01	5,011	4,662
179.50	4,612	2,208	180.02	5,020	4,712
179.51	4,619	2,254	180.03	5,028	4,762

Stage-Area-Storage for Pond B-10: Basin #10 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
180.04	5,036	4,812	180.56	5,468	7,543
180.05	5,045	4,863	180.57	5,476	7,598
180.06	5,053	4,913	180.58	5,484	7,653
180.07	5,061	4,964	180.59	5,493	7,708
180.08	5,069	5,014	180.60	5,501	7,763
180.09	5,078	5,065	180.61	5,509	7,818
180.10	5,086	5,116	180.62	5,518	7,873
180.11	5,094	5,167	180.63	5,526	7,928
180.12	5,103	5,218	180.64	5,534	7,983
180.13	5,111	5,269	180.65	5,543	8,039
180.14	5,119	5,320	180.66	5,551	8,094
180.15	5,128	5,371	180.67	5,559	8,150
180.16	5,136	5,423	180.68	5,567	8,205
180.17	5,144	5,474	180.69	5,576	8,261
180.18	5,152	5,525	180.70	5,584	8,317
180.19	5,161	5,577	180.71	5,592	8,373
180.20	5,169	5,629	180.72	5,601	8,429
180.21	5,177	5,680	180.73	5,609	8,485
180.22	5,186	5,732	180.74	5,617	8,541
180.23	5,194	5,784	180.75	5,626	8,597
180.24	5,202	5,836	180.76	5,634	8,653
180.25	5,211	5,888	180.77	5,642	8,710
180.26	5,219	5,940	180.78	5,650	8,766
180.27	5,227	5,993	180.79	5,659	8,823
180.28	5,235	6,045	180.80	5,667	8,880
180.29	5,244	6,097	180.81	5,675	8,936
180.30	5,252	6,150	180.82	5,684	8,993
180.31	5,260	6,202	180.83	5,692	9,050
180.32	5,269	6,255	180.84	5,700	9,107
180.33	5,277	6,308	180.85	5,708	9,164
180.34	5,285	6,360	180.86	5,717	9,221
180.35	5,293	6,413	180.87	5,725	9,278
180.36	5,302	6,466	180.88	5,733	9,336
180.37	5,310	6,519	180.89	5,742	9,393
180.38	5,318	6,573	180.90	5,750	9,450
180.39	5,327	6,626	180.91	5,758	9,508
180.40	5,335	6,679	180.92	5,767	9,566
180.41	5,343	6,732	180.93	5,775	9,623
180.42	5,352	6,786	180.94	5,783	9,681
180.43	5,360	6,840	180.95	5,791	9,739
180.44	5,368	6,893	180.96	5,800	9,797
180.45	5,376	6,947	180.97	5,808	9,855
180.46	5,385	7,001	180.98	5,816	9,913
180.47	5,393	7,055	180.99	5,825	9,971
180.48	5,401	7,109	181.00	5,833	10,030
180.49	5,410	7,163	181.01	5,842	10,088
180.50	5,418	7,217	181.02	5,851	10,146
180.51	5,426	7,271	181.03	5,859	10,205
180.52	5,435	7,325	181.04	5,868	10,264
180.53	5,443	7,380	181.05	5,877	10,322
180.54	5,451	7,434	181.06	5,886	10,381
180.55	5,460	7,489	181.07	5,894	10,440

Stage-Area-Storage for Pond B-10: Basin #10 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
181.08	5,903	10,499	181.60	6,359	13,687
181.09	5,912	10,558	181.61	6,368	13,751
181.10	5,921	10,617	181.62	6,377	13,815
181.11	5,929	10,676	181.63	6,386	13,878
181.12	5,938	10,736	181.64	6,394	13,942
181.13	5,947	10,795	181.65	6,403	14,006
181.14	5,956	10,855	181.66	6,412	14,070
181.15	5,965	10,914	181.67	6,421	14,134
181.16	5,973	10,974	181.68	6,429	14,199
181.17	5,982	11,034	181.69	6,438	14,263
181.18	5,991	11,094	181.70	6,447	14,327
181.19	6,000	11,154	181.71	6,456	14,392
181.20	6,008	11,214	181.72	6,464	14,457
181.21	6,017	11,274	181.73	6,473	14,521
181.22	6,026	11,334	181.74	6,482	14,586
181.23	6,035	11,394	181.75	6,491	14,651
181.24	6,043	11,455	181.76	6,500	14,716
181.25	6,052	11,515	181.77	6,508	14,781
181.26	6,061	11,576	181.78	6,517	14,846
181.27	6,070	11,636	181.79	6,526	14,911
181.28	6,079	11,697	181.80	6,535	14,977
181.29	6,087	11,758	181.81	6,543	15,042
181.30	6,096	11,819	181.82	6,552	15,107
181.31	6,105	11,880	181.83	6,561	15,173
181.32	6,114	11,941	181.84	6,570	15,239
181.33	6,122	12,002	181.85	6,578	15,304
181.34	6,131	12,063	181.86	6,587	15,370
181.35	6,140	12,125	181.87	6,596	15,436
181.36	6,149	12,186	181.88	6,605	15,502
181.37	6,157	12,248	181.89	6,614	15,568
181.38	6,166	12,309	181.90	6,622	15,634
181.39	6,175	12,371	181.91	6,631	15,701
181.40	6,184	12,433	181.92	6,640	15,767
181.41	6,193	12,495	181.93	6,649	15,833
181.42	6,201	12,557	181.94	6,657	15,900
181.43	6,210	12,619	181.95	6,666	15,967
181.44	6,219	12,681	181.96	6,675	16,033
181.45	6,228	12,743	181.97	6,684	16,100
181.46	6,236	12,805	181.98	6,692	16,167
181.47	6,245	12,868	181.99	6,701	16,234
181.48	6,254	12,930	182.00	6,710	16,301
181.49	6,263	12,993	182.01	6,719	16,368
181.50	6,272	13,056	182.02	6,728	16,435
181.51	6,280	13,118	182.03	6,738	16,503
181.52	6,289	13,181	182.04	6,747	16,570
181.53	6,298	13,244	182.05	6,756	16,638
181.54	6,307	13,307	182.06	6,765	16,705
181.55	6,315	13,370	182.07	6,775	16,773
181.56	6,324	13,433	182.08	6,784	16,841
181.57	6,333	13,497	182.09	6,793	16,909
181.58	6,342	13,560	182.10	6,802	16,977
181.59	6,350	13,624	182.11	6,812	17,045

Stage-Area-Storage for Pond B-10: Basin #10 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
182.12	6,821	17,113	182.64	7,301	20,784
182.13	6,830	17,181	182.65	7,310	20,857
182.14	6,839	17,249	182.66	7,319	20,931
182.15	6,848	17,318	182.67	7,328	21,004
182.16	6,858	17,386	182.68	7,338	21,077
182.17	6,867	17,455	182.69	7,347	21,151
182.18	6,876	17,524	182.70	7,356	21,224
182.19	6,885	17,593	182.71	7,365	21,298
182.20	6,895	17,661	182.72	7,375	21,371
182.21	6,904	17,730	182.73	7,384	21,445
182.22	6,913	17,800	182.74	7,393	21,519
182.23	6,922	17,869	182.75	7,402	21,593
182.24	6,932	17,938	182.76	7,411	21,667
182.25	6,941	18,007	182.77	7,421	21,741
182.26	6,950	18,077	182.78	7,430	21,816
182.27	6,959	18,146	182.79	7,439	21,890
182.28	6,968	18,216	182.80	7,448	21,964
182.29	6,978	18,286	182.81	7,458	22,039
182.30	6,987	18,356	182.82	7,467	22,114
182.31	6,996	18,425	182.83	7,476	22,188
182.32	7,005	18,495	182.84	7,485	22,263
182.33	7,015	18,566	182.85	7,495	22,338
182.34	7,024	18,636	182.86	7,504	22,413
182.35	7,033	18,706	182.87	7,513	22,488
182.36	7,042	18,776	182.88	7,522	22,563
182.37	7,052	18,847	182.89	7,531	22,638
182.38	7,061	18,917	182.90	7,541	22,714
182.39	7,070	18,988	182.91	7,550	22,789
182.40	7,079	19,059	182.92	7,559	22,865
182.41	7,088	19,130	182.93	7,568	22,940
182.42	7,098	19,201	182.94	7,578	23,016
182.43	7,107	19,272	182.95	7,587	23,092
182.44	7,116	19,343	182.96	7,596	23,168
182.45	7,125	19,414	182.97	7,605	23,244
182.46	7,135	19,485	182.98	7,615	23,320
182.47	7,144	19,557	182.99	7,624	23,396
182.48	7,153	19,628	183.00	7,633	23,473
182.49	7,162	19,700			
182.50	7,172	19,771			
182.51	7,181	19,843			
182.52	7,190	19,915			
182.53	7,199	19,987			
182.54	7,208	20,059			
182.55	7,218	20,131			
182.56	7,227	20,203			
182.57	7,236	20,276			
182.58	7,245	20,348			
182.59	7,255	20,421			
182.60	7,264	20,493			
182.61	7,273	20,566			
182.62	7,282	20,639			
182.63	7,291	20,711			

Summary for Pond B-11: Basin #11

Inflow Area = 2.228 ac, 58.53% Impervious, Inflow Depth = 7.15" for Current 100 yr event
 Inflow = 15.76 cfs @ 12.17 hrs, Volume= 1.328 af
 Outflow = 11.46 cfs @ 12.27 hrs, Volume= 1.158 af, Atten= 27%, Lag= 5.7 min
 Primary = 11.46 cfs @ 12.27 hrs, Volume= 1.158 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 183.68' @ 12.27 hrs Surf.Area= 7,728 sf Storage= 22,843 cf

Plug-Flow detention time= 321.2 min calculated for 1.156 af (87% of inflow)
 Center-of-Mass det. time= 260.6 min (1,029.1 - 768.5)

Volume	Invert	Avail.Storage	Storage Description
#1	180.00'	43,224 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
180.00	4,780	0	0
181.00	5,522	5,151	5,151
182.00	6,306	5,914	11,065
183.00	7,135	6,721	17,786
184.00	8,007	7,571	25,357
185.00	8,923	8,465	33,822
186.00	9,882	9,403	43,224

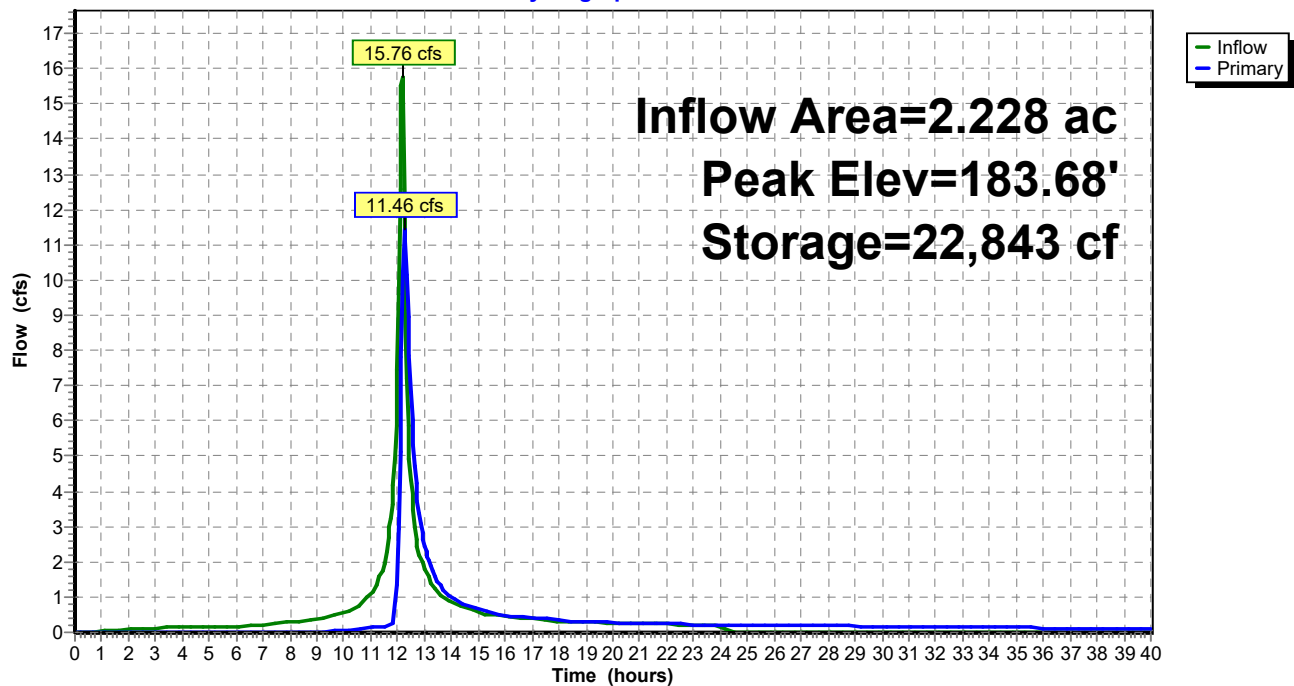
Device	Routing	Invert	Outlet Devices
#1	Primary	178.65'	18.0" Round Culvert L= 131.0' Ke= 0.500 Inlet / Outlet Invert= 178.65' / 178.00' S= 0.0050 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	181.00'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	182.75'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	183.91'	50.0' long + 3.0 ' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=11.31 cfs @ 12.27 hrs HW=183.67' (Free Discharge)

1=Culvert (Passes 11.31 cfs of 14.68 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.26 cfs @ 7.72 fps)
 3=Sharp-Crested Rectangular Weir (Weir Controls 11.04 cfs @ 3.14 fps)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-11: Basin #11

Hydrograph



Stage-Discharge for Pond B-11: Basin #11

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
180.00	0.00	180.52	0.00	181.04	0.00	181.56	0.11
180.01	0.00	180.53	0.00	181.05	0.00	181.57	0.11
180.02	0.00	180.54	0.00	181.06	0.01	181.58	0.11
180.03	0.00	180.55	0.00	181.07	0.01	181.59	0.11
180.04	0.00	180.56	0.00	181.08	0.01	181.60	0.12
180.05	0.00	180.57	0.00	181.09	0.01	181.61	0.12
180.06	0.00	180.58	0.00	181.10	0.02	181.62	0.12
180.07	0.00	180.59	0.00	181.11	0.02	181.63	0.12
180.08	0.00	180.60	0.00	181.12	0.02	181.64	0.12
180.09	0.00	180.61	0.00	181.13	0.03	181.65	0.12
180.10	0.00	180.62	0.00	181.14	0.03	181.66	0.12
180.11	0.00	180.63	0.00	181.15	0.03	181.67	0.12
180.12	0.00	180.64	0.00	181.16	0.04	181.68	0.12
180.13	0.00	180.65	0.00	181.17	0.04	181.69	0.13
180.14	0.00	180.66	0.00	181.18	0.05	181.70	0.13
180.15	0.00	180.67	0.00	181.19	0.05	181.71	0.13
180.16	0.00	180.68	0.00	181.20	0.05	181.72	0.13
180.17	0.00	180.69	0.00	181.21	0.05	181.73	0.13
180.18	0.00	180.70	0.00	181.22	0.06	181.74	0.13
180.19	0.00	180.71	0.00	181.23	0.06	181.75	0.13
180.20	0.00	180.72	0.00	181.24	0.06	181.76	0.13
180.21	0.00	180.73	0.00	181.25	0.06	181.77	0.13
180.22	0.00	180.74	0.00	181.26	0.06	181.78	0.13
180.23	0.00	180.75	0.00	181.27	0.07	181.79	0.14
180.24	0.00	180.76	0.00	181.28	0.07	181.80	0.14
180.25	0.00	180.77	0.00	181.29	0.07	181.81	0.14
180.26	0.00	180.78	0.00	181.30	0.07	181.82	0.14
180.27	0.00	180.79	0.00	181.31	0.07	181.83	0.14
180.28	0.00	180.80	0.00	181.32	0.08	181.84	0.14
180.29	0.00	180.81	0.00	181.33	0.08	181.85	0.14
180.30	0.00	180.82	0.00	181.34	0.08	181.86	0.14
180.31	0.00	180.83	0.00	181.35	0.08	181.87	0.14
180.32	0.00	180.84	0.00	181.36	0.08	181.88	0.14
180.33	0.00	180.85	0.00	181.37	0.08	181.89	0.15
180.34	0.00	180.86	0.00	181.38	0.09	181.90	0.15
180.35	0.00	180.87	0.00	181.39	0.09	181.91	0.15
180.36	0.00	180.88	0.00	181.40	0.09	181.92	0.15
180.37	0.00	180.89	0.00	181.41	0.09	181.93	0.15
180.38	0.00	180.90	0.00	181.42	0.09	181.94	0.15
180.39	0.00	180.91	0.00	181.43	0.09	181.95	0.15
180.40	0.00	180.92	0.00	181.44	0.10	181.96	0.15
180.41	0.00	180.93	0.00	181.45	0.10	181.97	0.15
180.42	0.00	180.94	0.00	181.46	0.10	181.98	0.15
180.43	0.00	180.95	0.00	181.47	0.10	181.99	0.15
180.44	0.00	180.96	0.00	181.48	0.10	182.00	0.16
180.45	0.00	180.97	0.00	181.49	0.10	182.01	0.16
180.46	0.00	180.98	0.00	181.50	0.10	182.02	0.16
180.47	0.00	180.99	0.00	181.51	0.10	182.03	0.16
180.48	0.00	181.00	0.00	181.52	0.11	182.04	0.16
180.49	0.00	181.01	0.00	181.53	0.11	182.05	0.16
180.50	0.00	181.02	0.00	181.54	0.11	182.06	0.16
180.51	0.00	181.03	0.00	181.55	0.11	182.07	0.16

Stage-Discharge for Pond B-11: Basin #11 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
182.08	0.16	182.60	0.20	183.12	3.12	183.64	10.75
182.09	0.16	182.61	0.20	183.13	3.24	183.65	10.93
182.10	0.16	182.62	0.20	183.14	3.36	183.66	11.10
182.11	0.16	182.63	0.20	183.15	3.48	183.67	11.27
182.12	0.17	182.64	0.20	183.16	3.60	183.68	11.45
182.13	0.17	182.65	0.20	183.17	3.72	183.69	11.62
182.14	0.17	182.66	0.20	183.18	3.85	183.70	11.80
182.15	0.17	182.67	0.21	183.19	3.97	183.71	11.98
182.16	0.17	182.68	0.21	183.20	4.10	183.72	12.16
182.17	0.17	182.69	0.21	183.21	4.23	183.73	12.33
182.18	0.17	182.70	0.21	183.22	4.35	183.74	12.51
182.19	0.17	182.71	0.21	183.23	4.48	183.75	12.69
182.20	0.17	182.72	0.21	183.24	4.62	183.76	12.87
182.21	0.17	182.73	0.21	183.25	4.75	183.77	13.06
182.22	0.17	182.74	0.21	183.26	4.88	183.78	13.24
182.23	0.17	182.75	0.21	183.27	5.02	183.79	13.42
182.24	0.17	182.76	0.22	183.28	5.16	183.80	13.60
182.25	0.18	182.77	0.25	183.29	5.29	183.81	13.79
182.26	0.18	182.78	0.28	183.30	5.43	183.82	13.97
182.27	0.18	182.79	0.32	183.31	5.57	183.83	14.16
182.28	0.18	182.80	0.36	183.32	5.71	183.84	14.35
182.29	0.18	182.81	0.41	183.33	5.85	183.85	14.53
182.30	0.18	182.82	0.46	183.34	6.00	183.86	14.72
182.31	0.18	182.83	0.51	183.35	6.14	183.87	14.91
182.32	0.18	182.84	0.57	183.36	6.29	183.88	15.04
182.33	0.18	182.85	0.63	183.37	6.43	183.89	15.05
182.34	0.18	182.86	0.69	183.38	6.58	183.90	15.07
182.35	0.18	182.87	0.76	183.39	6.73	183.91	15.09
182.36	0.18	182.88	0.83	183.40	6.88	183.92	15.22
182.37	0.18	182.89	0.90	183.41	7.03	183.93	15.45
182.38	0.19	182.90	0.97	183.42	7.18	183.94	15.75
182.39	0.19	182.91	1.05	183.43	7.34	183.95	16.09
182.40	0.19	182.92	1.13	183.44	7.49	183.96	16.48
182.41	0.19	182.93	1.21	183.45	7.64	183.97	16.92
182.42	0.19	182.94	1.30	183.46	7.80	183.98	17.38
182.43	0.19	182.95	1.38	183.47	7.96	183.99	17.88
182.44	0.19	182.96	1.47	183.48	8.11	184.00	18.41
182.45	0.19	182.97	1.56	183.49	8.27	184.01	18.98
182.46	0.19	182.98	1.65	183.50	8.43	184.02	19.57
182.47	0.19	182.99	1.74	183.51	8.59	184.03	20.18
182.48	0.19	183.00	1.84	183.52	8.75	184.04	20.83
182.49	0.19	183.01	1.94	183.53	8.91	184.05	21.50
182.50	0.19	183.02	2.04	183.54	9.08	184.06	22.19
182.51	0.19	183.03	2.14	183.55	9.24	184.07	22.91
182.52	0.20	183.04	2.24	183.56	9.41	184.08	23.64
182.53	0.20	183.05	2.35	183.57	9.57	184.09	24.41
182.54	0.20	183.06	2.45	183.58	9.74	184.10	25.19
182.55	0.20	183.07	2.56	183.59	9.91	184.11	25.99
182.56	0.20	183.08	2.67	183.60	10.07	184.12	26.86
182.57	0.20	183.09	2.78	183.61	10.24	184.13	27.74
182.58	0.20	183.10	2.89	183.62	10.41	184.14	28.66
182.59	0.20	183.11	3.01	183.63	10.58	184.15	29.60

Stage-Discharge for Pond B-11: Basin #11 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
184.16	30.56	184.68	110.34	185.20	223.74	185.72	368.60
184.17	31.55	184.69	112.21	185.21	226.21	185.73	371.68
184.18	32.57	184.70	114.08	185.22	228.70	185.74	374.77
184.19	33.61	184.71	115.96	185.23	231.20	185.75	377.88
184.20	34.67	184.72	117.90	185.24	233.71	185.76	380.99
184.21	35.76	184.73	119.85	185.25	236.23	185.77	384.11
184.22	36.88	184.74	121.81	185.26	238.75	185.78	387.25
184.23	38.01	184.75	123.79	185.27	241.29	185.79	390.39
184.24	39.18	184.76	125.77	185.28	243.84	185.80	393.54
184.25	40.36	184.77	127.77	185.29	246.40	185.81	396.71
184.26	41.57	184.78	129.79	185.30	248.97	185.82	399.88
184.27	42.81	184.79	131.82	185.31	251.55	185.83	403.07
184.28	44.07	184.80	133.86	185.32	254.19	185.84	406.27
184.29	45.35	184.81	135.91	185.33	256.84	185.85	409.47
184.30	46.66	184.82	137.98	185.34	259.49	185.86	412.69
184.31	47.99	184.83	140.06	185.35	262.16	185.87	415.92
184.32	49.37	184.84	142.15	185.36	264.84	185.88	419.16
184.33	50.78	184.85	144.25	185.37	267.54	185.89	422.41
184.34	52.21	184.86	146.37	185.38	270.24	185.90	425.67
184.35	53.67	184.87	148.50	185.39	272.95	185.91	428.93
184.36	55.16	184.88	150.64	185.40	275.68	185.92	432.28
184.37	56.67	184.89	152.80	185.41	278.41	185.93	435.63
184.38	58.21	184.90	154.96	185.42	281.16	185.94	439.00
184.39	59.78	184.91	157.14	185.43	283.92	185.95	442.37
184.40	61.37	184.92	159.28	185.44	286.68	185.96	445.76
184.41	62.99	184.93	161.43	185.45	289.46	185.97	449.16
184.42	64.63	184.94	163.59	185.46	292.25	185.98	452.57
184.43	66.30	184.95	165.77	185.47	295.06	185.99	455.99
184.44	68.00	184.96	167.95	185.48	297.87	186.00	459.42
184.45	69.72	184.97	170.14	185.49	300.69		
184.46	71.47	184.98	172.34	185.50	303.52		
184.47	73.25	184.99	174.56	185.51	306.37		
184.48	75.06	185.00	176.78	185.52	309.23		
184.49	76.89	185.01	179.02	185.53	312.09		
184.50	78.75	185.02	181.26	185.54	314.97		
184.51	80.63	185.03	183.52	185.55	317.86		
184.52	82.27	185.04	185.78	185.56	320.76		
184.53	83.93	185.05	188.06	185.57	323.67		
184.54	85.60	185.06	190.34	185.58	326.59		
184.55	87.28	185.07	192.64	185.59	329.52		
184.56	88.98	185.08	194.94	185.60	332.46		
184.57	90.69	185.09	197.26	185.61	335.42		
184.58	92.41	185.10	199.59	185.62	338.38		
184.59	94.15	185.11	201.92	185.63	341.35		
184.60	95.90	185.12	204.30	185.64	344.34		
184.61	97.66	185.13	206.69	185.65	347.33		
184.62	99.43	185.14	209.10	185.66	350.34		
184.63	101.22	185.15	211.51	185.67	353.36		
184.64	103.02	185.16	213.93	185.68	356.39		
184.65	104.83	185.17	216.37	185.69	359.42		
184.66	106.66	185.18	218.81	185.70	362.47		
184.67	108.49	185.19	221.27	185.71	365.53		

Stage-Area-Storage for Pond B-11: Basin #11

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
180.00	4,780	0	180.52	5,166	2,586
180.01	4,787	48	180.53	5,173	2,638
180.02	4,795	96	180.54	5,181	2,689
180.03	4,802	144	180.55	5,188	2,741
180.04	4,810	192	180.56	5,196	2,793
180.05	4,817	240	180.57	5,203	2,845
180.06	4,825	288	180.58	5,210	2,897
180.07	4,832	336	180.59	5,218	2,949
180.08	4,839	385	180.60	5,225	3,002
180.09	4,847	433	180.61	5,233	3,054
180.10	4,854	482	180.62	5,240	3,106
180.11	4,862	530	180.63	5,247	3,159
180.12	4,869	579	180.64	5,255	3,211
180.13	4,876	628	180.65	5,262	3,264
180.14	4,884	676	180.66	5,270	3,316
180.15	4,891	725	180.67	5,277	3,369
180.16	4,899	774	180.68	5,285	3,422
180.17	4,906	823	180.69	5,292	3,475
180.18	4,914	872	180.70	5,299	3,528
180.19	4,921	922	180.71	5,307	3,581
180.20	4,928	971	180.72	5,314	3,634
180.21	4,936	1,020	180.73	5,322	3,687
180.22	4,943	1,070	180.74	5,329	3,740
180.23	4,951	1,119	180.75	5,337	3,794
180.24	4,958	1,169	180.76	5,344	3,847
180.25	4,966	1,218	180.77	5,351	3,901
180.26	4,973	1,268	180.78	5,359	3,954
180.27	4,980	1,318	180.79	5,366	4,008
180.28	4,988	1,367	180.80	5,374	4,061
180.29	4,995	1,417	180.81	5,381	4,115
180.30	5,003	1,467	180.82	5,388	4,169
180.31	5,010	1,517	180.83	5,396	4,223
180.32	5,017	1,568	180.84	5,403	4,277
180.33	5,025	1,618	180.85	5,411	4,331
180.34	5,032	1,668	180.86	5,418	4,385
180.35	5,040	1,718	180.87	5,426	4,439
180.36	5,047	1,769	180.88	5,433	4,494
180.37	5,055	1,819	180.89	5,440	4,548
180.38	5,062	1,870	180.90	5,448	4,603
180.39	5,069	1,921	180.91	5,455	4,657
180.40	5,077	1,971	180.92	5,463	4,712
180.41	5,084	2,022	180.93	5,470	4,766
180.42	5,092	2,073	180.94	5,477	4,821
180.43	5,099	2,124	180.95	5,485	4,876
180.44	5,106	2,175	180.96	5,492	4,931
180.45	5,114	2,226	180.97	5,500	4,986
180.46	5,121	2,277	180.98	5,507	5,041
180.47	5,129	2,329	180.99	5,515	5,096
180.48	5,136	2,380	181.00	5,522	5,151
180.49	5,144	2,431	181.01	5,530	5,206
180.50	5,151	2,483	181.02	5,538	5,262
180.51	5,158	2,534	181.03	5,546	5,317

Stage-Area-Storage for Pond B-11: Basin #11 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
181.04	5,553	5,373	181.56	5,961	8,366
181.05	5,561	5,428	181.57	5,969	8,426
181.06	5,569	5,484	181.58	5,977	8,486
181.07	5,577	5,539	181.59	5,985	8,545
181.08	5,585	5,595	181.60	5,992	8,605
181.09	5,593	5,651	181.61	6,000	8,665
181.10	5,600	5,707	181.62	6,008	8,725
181.11	5,608	5,763	181.63	6,016	8,785
181.12	5,616	5,819	181.64	6,024	8,846
181.13	5,624	5,875	181.65	6,032	8,906
181.14	5,632	5,932	181.66	6,039	8,966
181.15	5,640	5,988	181.67	6,047	9,027
181.16	5,647	6,045	181.68	6,055	9,087
181.17	5,655	6,101	181.69	6,063	9,148
181.18	5,663	6,158	181.70	6,071	9,208
181.19	5,671	6,214	181.71	6,079	9,269
181.20	5,679	6,271	181.72	6,086	9,330
181.21	5,687	6,328	181.73	6,094	9,391
181.22	5,694	6,385	181.74	6,102	9,452
181.23	5,702	6,442	181.75	6,110	9,513
181.24	5,710	6,499	181.76	6,118	9,574
181.25	5,718	6,556	181.77	6,126	9,635
181.26	5,726	6,613	181.78	6,134	9,697
181.27	5,734	6,671	181.79	6,141	9,758
181.28	5,742	6,728	181.80	6,149	9,819
181.29	5,749	6,785	181.81	6,157	9,881
181.30	5,757	6,843	181.82	6,165	9,943
181.31	5,765	6,900	181.83	6,173	10,004
181.32	5,773	6,958	181.84	6,181	10,066
181.33	5,781	7,016	181.85	6,188	10,128
181.34	5,789	7,074	181.86	6,196	10,190
181.35	5,796	7,132	181.87	6,204	10,252
181.36	5,804	7,190	181.88	6,212	10,314
181.37	5,812	7,248	181.89	6,220	10,376
181.38	5,820	7,306	181.90	6,228	10,438
181.39	5,828	7,364	181.91	6,235	10,501
181.40	5,836	7,423	181.92	6,243	10,563
181.41	5,843	7,481	181.93	6,251	10,626
181.42	5,851	7,539	181.94	6,259	10,688
181.43	5,859	7,598	181.95	6,267	10,751
181.44	5,867	7,657	181.96	6,275	10,813
181.45	5,875	7,715	181.97	6,282	10,876
181.46	5,883	7,774	181.98	6,290	10,939
181.47	5,890	7,833	181.99	6,298	11,002
181.48	5,898	7,892	182.00	6,306	11,065
181.49	5,906	7,951	182.01	6,314	11,128
181.50	5,914	8,010	182.02	6,323	11,191
181.51	5,922	8,069	182.03	6,331	11,255
181.52	5,930	8,128	182.04	6,339	11,318
181.53	5,938	8,188	182.05	6,347	11,381
181.54	5,945	8,247	182.06	6,356	11,445
181.55	5,953	8,307	182.07	6,364	11,508

Stage-Area-Storage for Pond B-11: Basin #11 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
182.08	6,372	11,572	182.60	6,803	14,998
182.09	6,381	11,636	182.61	6,812	15,066
182.10	6,389	11,700	182.62	6,820	15,134
182.11	6,397	11,764	182.63	6,828	15,202
182.12	6,405	11,828	182.64	6,837	15,271
182.13	6,414	11,892	182.65	6,845	15,339
182.14	6,422	11,956	182.66	6,853	15,408
182.15	6,430	12,020	182.67	6,861	15,476
182.16	6,439	12,085	182.68	6,870	15,545
182.17	6,447	12,149	182.69	6,878	15,613
182.18	6,455	12,214	182.70	6,886	15,682
182.19	6,464	12,278	182.71	6,895	15,751
182.20	6,472	12,343	182.72	6,903	15,820
182.21	6,480	12,408	182.73	6,911	15,889
182.22	6,488	12,472	182.74	6,919	15,958
182.23	6,497	12,537	182.75	6,928	16,028
182.24	6,505	12,602	182.76	6,936	16,097
182.25	6,513	12,667	182.77	6,944	16,166
182.26	6,522	12,733	182.78	6,953	16,236
182.27	6,530	12,798	182.79	6,961	16,305
182.28	6,538	12,863	182.80	6,969	16,375
182.29	6,546	12,929	182.81	6,977	16,445
182.30	6,555	12,994	182.82	6,986	16,515
182.31	6,563	13,060	182.83	6,994	16,585
182.32	6,571	13,125	182.84	7,002	16,655
182.33	6,580	13,191	182.85	7,011	16,725
182.34	6,588	13,257	182.86	7,019	16,795
182.35	6,596	13,323	182.87	7,027	16,865
182.36	6,604	13,389	182.88	7,036	16,935
182.37	6,613	13,455	182.89	7,044	17,006
182.38	6,621	13,521	182.90	7,052	17,076
182.39	6,629	13,587	182.91	7,060	17,147
182.40	6,638	13,654	182.92	7,069	17,217
182.41	6,646	13,720	182.93	7,077	17,288
182.42	6,654	13,787	182.94	7,085	17,359
182.43	6,662	13,853	182.95	7,094	17,430
182.44	6,671	13,920	182.96	7,102	17,501
182.45	6,679	13,987	182.97	7,110	17,572
182.46	6,687	14,053	182.98	7,118	17,643
182.47	6,696	14,120	182.99	7,127	17,714
182.48	6,704	14,187	183.00	7,135	17,786
182.49	6,712	14,254	183.01	7,144	17,857
182.50	6,721	14,322	183.02	7,152	17,928
182.51	6,729	14,389	183.03	7,161	18,000
182.52	6,737	14,456	183.04	7,170	18,072
182.53	6,745	14,524	183.05	7,179	18,143
182.54	6,754	14,591	183.06	7,187	18,215
182.55	6,762	14,659	183.07	7,196	18,287
182.56	6,770	14,726	183.08	7,205	18,359
182.57	6,779	14,794	183.09	7,213	18,431
182.58	6,787	14,862	183.10	7,222	18,503
182.59	6,795	14,930	183.11	7,231	18,576

Stage-Area-Storage for Pond B-11: Basin #11 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
183.12	7,240	18,648	183.64	7,693	22,530
183.13	7,248	18,720	183.65	7,702	22,607
183.14	7,257	18,793	183.66	7,711	22,685
183.15	7,266	18,866	183.67	7,719	22,762
183.16	7,275	18,938	183.68	7,728	22,839
183.17	7,283	19,011	183.69	7,737	22,916
183.18	7,292	19,084	183.70	7,745	22,994
183.19	7,301	19,157	183.71	7,754	23,071
183.20	7,309	19,230	183.72	7,763	23,149
183.21	7,318	19,303	183.73	7,772	23,226
183.22	7,327	19,376	183.74	7,780	23,304
183.23	7,336	19,450	183.75	7,789	23,382
183.24	7,344	19,523	183.76	7,798	23,460
183.25	7,353	19,597	183.77	7,806	23,538
183.26	7,362	19,670	183.78	7,815	23,616
183.27	7,370	19,744	183.79	7,824	23,694
183.28	7,379	19,817	183.80	7,833	23,773
183.29	7,388	19,891	183.81	7,841	23,851
183.30	7,397	19,965	183.82	7,850	23,929
183.31	7,405	20,039	183.83	7,859	24,008
183.32	7,414	20,113	183.84	7,867	24,087
183.33	7,423	20,188	183.85	7,876	24,165
183.34	7,431	20,262	183.86	7,885	24,244
183.35	7,440	20,336	183.87	7,894	24,323
183.36	7,449	20,411	183.88	7,902	24,402
183.37	7,458	20,485	183.89	7,911	24,481
183.38	7,466	20,560	183.90	7,920	24,560
183.39	7,475	20,634	183.91	7,929	24,639
183.40	7,484	20,709	183.92	7,937	24,719
183.41	7,493	20,784	183.93	7,946	24,798
183.42	7,501	20,859	183.94	7,955	24,878
183.43	7,510	20,934	183.95	7,963	24,957
183.44	7,519	21,009	183.96	7,972	25,037
183.45	7,527	21,085	183.97	7,981	25,117
183.46	7,536	21,160	183.98	7,990	25,197
183.47	7,545	21,235	183.99	7,998	25,276
183.48	7,554	21,311	184.00	8,007	25,357
183.49	7,562	21,386	184.01	8,016	25,437
183.50	7,571	21,462	184.02	8,025	25,517
183.51	7,580	21,538	184.03	8,034	25,597
183.52	7,588	21,614	184.04	8,044	25,678
183.53	7,597	21,690	184.05	8,053	25,758
183.54	7,606	21,766	184.06	8,062	25,839
183.55	7,615	21,842	184.07	8,071	25,919
183.56	7,623	21,918	184.08	8,080	26,000
183.57	7,632	21,994	184.09	8,089	26,081
183.58	7,641	22,070	184.10	8,099	26,162
183.59	7,649	22,147	184.11	8,108	26,243
183.60	7,658	22,223	184.12	8,117	26,324
183.61	7,667	22,300	184.13	8,126	26,405
183.62	7,676	22,377	184.14	8,135	26,486
183.63	7,684	22,454	184.15	8,144	26,568

Stage-Area-Storage for Pond B-11: Basin #11 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
184.16	8,154	26,649	184.68	8,630	31,013
184.17	8,163	26,731	184.69	8,639	31,099
184.18	8,172	26,813	184.70	8,648	31,186
184.19	8,181	26,894	184.71	8,657	31,272
184.20	8,190	26,976	184.72	8,667	31,359
184.21	8,199	27,058	184.73	8,676	31,446
184.22	8,209	27,140	184.74	8,685	31,532
184.23	8,218	27,222	184.75	8,694	31,619
184.24	8,227	27,305	184.76	8,703	31,706
184.25	8,236	27,387	184.77	8,712	31,793
184.26	8,245	27,469	184.78	8,721	31,881
184.27	8,254	27,552	184.79	8,731	31,968
184.28	8,263	27,634	184.80	8,740	32,055
184.29	8,273	27,717	184.81	8,749	32,143
184.30	8,282	27,800	184.82	8,758	32,230
184.31	8,291	27,883	184.83	8,767	32,318
184.32	8,300	27,966	184.84	8,776	32,406
184.33	8,309	28,049	184.85	8,786	32,493
184.34	8,318	28,132	184.86	8,795	32,581
184.35	8,328	28,215	184.87	8,804	32,669
184.36	8,337	28,298	184.88	8,813	32,757
184.37	8,346	28,382	184.89	8,822	32,846
184.38	8,355	28,465	184.90	8,831	32,934
184.39	8,364	28,549	184.91	8,841	33,022
184.40	8,373	28,633	184.92	8,850	33,111
184.41	8,383	28,716	184.93	8,859	33,199
184.42	8,392	28,800	184.94	8,868	33,288
184.43	8,401	28,884	184.95	8,877	33,376
184.44	8,410	28,968	184.96	8,886	33,465
184.45	8,419	29,052	184.97	8,896	33,554
184.46	8,428	29,137	184.98	8,905	33,643
184.47	8,438	29,221	184.99	8,914	33,732
184.48	8,447	29,305	185.00	8,923	33,822
184.49	8,456	29,390	185.01	8,933	33,911
184.50	8,465	29,475	185.02	8,942	34,000
184.51	8,474	29,559	185.03	8,952	34,090
184.52	8,483	29,644	185.04	8,961	34,179
184.53	8,492	29,729	185.05	8,971	34,269
184.54	8,502	29,814	185.06	8,981	34,359
184.55	8,511	29,899	185.07	8,990	34,448
184.56	8,520	29,984	185.08	9,000	34,538
184.57	8,529	30,069	185.09	9,009	34,628
184.58	8,538	30,155	185.10	9,019	34,719
184.59	8,547	30,240	185.11	9,028	34,809
184.60	8,557	30,326	185.12	9,038	34,899
184.61	8,566	30,411	185.13	9,048	34,990
184.62	8,575	30,497	185.14	9,057	35,080
184.63	8,584	30,583	185.15	9,067	35,171
184.64	8,593	30,669	185.16	9,076	35,261
184.65	8,602	30,755	185.17	9,086	35,352
184.66	8,612	30,841	185.18	9,096	35,443
184.67	8,621	30,927	185.19	9,105	35,534

Stage-Area-Storage for Pond B-11: Basin #11 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
185.20	9,115	35,625	185.72	9,613	40,495
185.21	9,124	35,716	185.73	9,623	40,591
185.22	9,134	35,808	185.74	9,633	40,687
185.23	9,144	35,899	185.75	9,642	40,783
185.24	9,153	35,991	185.76	9,652	40,880
185.25	9,163	36,082	185.77	9,661	40,977
185.26	9,172	36,174	185.78	9,671	41,073
185.27	9,182	36,266	185.79	9,681	41,170
185.28	9,192	36,358	185.80	9,690	41,267
185.29	9,201	36,449	185.81	9,700	41,364
185.30	9,211	36,542	185.82	9,709	41,461
185.31	9,220	36,634	185.83	9,719	41,558
185.32	9,230	36,726	185.84	9,729	41,655
185.33	9,239	36,818	185.85	9,738	41,752
185.34	9,249	36,911	185.86	9,748	41,850
185.35	9,259	37,003	185.87	9,757	41,947
185.36	9,268	37,096	185.88	9,767	42,045
185.37	9,278	37,189	185.89	9,777	42,143
185.38	9,287	37,281	185.90	9,786	42,241
185.39	9,297	37,374	185.91	9,796	42,339
185.40	9,307	37,467	185.92	9,805	42,437
185.41	9,316	37,561	185.93	9,815	42,535
185.42	9,326	37,654	185.94	9,824	42,633
185.43	9,335	37,747	185.95	9,834	42,731
185.44	9,345	37,840	185.96	9,844	42,829
185.45	9,355	37,934	185.97	9,853	42,928
185.46	9,364	38,028	185.98	9,863	43,027
185.47	9,374	38,121	185.99	9,872	43,125
185.48	9,383	38,215	186.00	9,882	43,224
185.49	9,393	38,309			
185.50	9,403	38,403			
185.51	9,412	38,497			
185.52	9,422	38,591			
185.53	9,431	38,685			
185.54	9,441	38,780			
185.55	9,450	38,874			
185.56	9,460	38,969			
185.57	9,470	39,063			
185.58	9,479	39,158			
185.59	9,489	39,253			
185.60	9,498	39,348			
185.61	9,508	39,443			
185.62	9,518	39,538			
185.63	9,527	39,633			
185.64	9,537	39,729			
185.65	9,546	39,824			
185.66	9,556	39,920			
185.67	9,566	40,015			
185.68	9,575	40,111			
185.69	9,585	40,207			
185.70	9,594	40,303			
185.71	9,604	40,399			

Summary for Pond B-12: Basin #12

Inflow Area = 2.426 ac, 44.77% Impervious, Inflow Depth = 6.75" for Current 100 yr event
 Inflow = 16.54 cfs @ 12.17 hrs, Volume= 1.365 af
 Outflow = 12.94 cfs @ 12.25 hrs, Volume= 1.260 af, Atten= 22%, Lag= 5.0 min
 Primary = 12.94 cfs @ 12.25 hrs, Volume= 1.260 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 203.94' @ 12.25 hrs Surf.Area= 6,836 sf Storage= 16,791 cf

Plug-Flow detention time= 130.0 min calculated for 1.260 af (92% of inflow)
 Center-of-Mass det. time= 87.8 min (866.1 - 778.3)

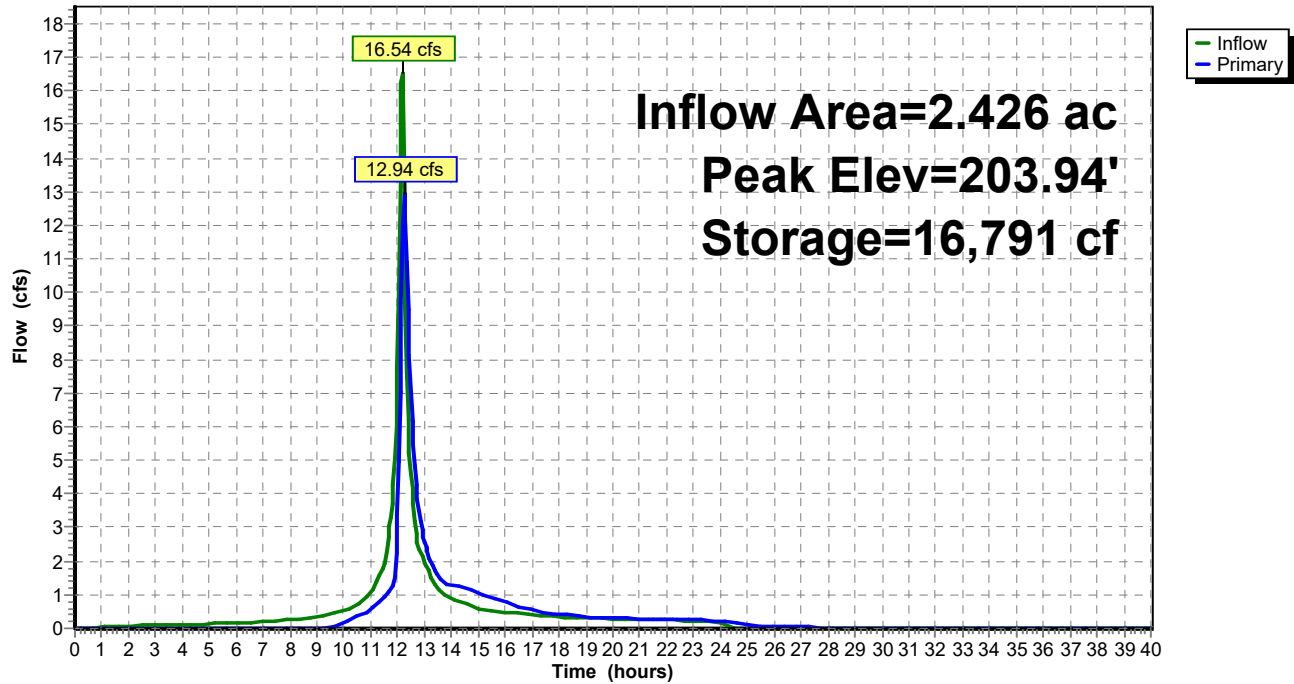
Volume	Invert	Avail.Storage	Storage Description
#1	201.00'	24,487 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
201.00	4,623	0	0
202.00	5,350	4,987	4,987
203.00	6,105	5,728	10,714
204.00	6,883	6,494	17,208
205.00	7,674	7,279	24,487

Device	Routing	Invert	Outlet Devices
#1	Primary	199.65'	18.0" Round Culvert L= 238.0' Ke= 0.500 Inlet / Outlet Invert= 199.65' / 195.50' S= 0.0174 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	201.90'	7.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	203.02'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	204.50'	50.0' long + 3.0 ' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=12.89 cfs @ 12.25 hrs HW=203.94' (Free Discharge)

1=Culvert (Passes 12.89 cfs of 15.44 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 1.94 cfs @ 6.32 fps)
 3=Sharp-Crested Rectangular Weir (Weir Controls 10.95 cfs @ 3.13 fps)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-12: Basin #12**Hydrograph**

Stage-Discharge for Pond B-12: Basin #12

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
201.00	0.00	201.52	0.00	202.04	0.07	202.56	0.87
201.01	0.00	201.53	0.00	202.05	0.07	202.57	0.88
201.02	0.00	201.54	0.00	202.06	0.08	202.58	0.90
201.03	0.00	201.55	0.00	202.07	0.09	202.59	0.91
201.04	0.00	201.56	0.00	202.08	0.11	202.60	0.92
201.05	0.00	201.57	0.00	202.09	0.12	202.61	0.93
201.06	0.00	201.58	0.00	202.10	0.13	202.62	0.94
201.07	0.00	201.59	0.00	202.11	0.14	202.63	0.95
201.08	0.00	201.60	0.00	202.12	0.15	202.64	0.97
201.09	0.00	201.61	0.00	202.13	0.17	202.65	0.98
201.10	0.00	201.62	0.00	202.14	0.18	202.66	0.99
201.11	0.00	201.63	0.00	202.15	0.20	202.67	1.00
201.12	0.00	201.64	0.00	202.16	0.21	202.68	1.01
201.13	0.00	201.65	0.00	202.17	0.22	202.69	1.02
201.14	0.00	201.66	0.00	202.18	0.24	202.70	1.03
201.15	0.00	201.67	0.00	202.19	0.26	202.71	1.04
201.16	0.00	201.68	0.00	202.20	0.27	202.72	1.05
201.17	0.00	201.69	0.00	202.21	0.29	202.73	1.06
201.18	0.00	201.70	0.00	202.22	0.30	202.74	1.07
201.19	0.00	201.71	0.00	202.23	0.32	202.75	1.08
201.20	0.00	201.72	0.00	202.24	0.34	202.76	1.09
201.21	0.00	201.73	0.00	202.25	0.36	202.77	1.10
201.22	0.00	201.74	0.00	202.26	0.37	202.78	1.11
201.23	0.00	201.75	0.00	202.27	0.39	202.79	1.12
201.24	0.00	201.76	0.00	202.28	0.41	202.80	1.13
201.25	0.00	201.77	0.00	202.29	0.43	202.81	1.14
201.26	0.00	201.78	0.00	202.30	0.45	202.82	1.15
201.27	0.00	201.79	0.00	202.31	0.47	202.83	1.16
201.28	0.00	201.80	0.00	202.32	0.48	202.84	1.17
201.29	0.00	201.81	0.00	202.33	0.50	202.85	1.18
201.30	0.00	201.82	0.00	202.34	0.52	202.86	1.19
201.31	0.00	201.83	0.00	202.35	0.54	202.87	1.20
201.32	0.00	201.84	0.00	202.36	0.56	202.88	1.21
201.33	0.00	201.85	0.00	202.37	0.58	202.89	1.22
201.34	0.00	201.86	0.00	202.38	0.60	202.90	1.22
201.35	0.00	201.87	0.00	202.39	0.61	202.91	1.23
201.36	0.00	201.88	0.00	202.40	0.63	202.92	1.24
201.37	0.00	201.89	0.00	202.41	0.65	202.93	1.25
201.38	0.00	201.90	0.00	202.42	0.67	202.94	1.26
201.39	0.00	201.91	0.00	202.43	0.69	202.95	1.27
201.40	0.00	201.92	0.00	202.44	0.70	202.96	1.28
201.41	0.00	201.93	0.00	202.45	0.72	202.97	1.29
201.42	0.00	201.94	0.01	202.46	0.74	202.98	1.29
201.43	0.00	201.95	0.01	202.47	0.75	202.99	1.30
201.44	0.00	201.96	0.01	202.48	0.77	203.00	1.31
201.45	0.00	201.97	0.02	202.49	0.78	203.01	1.32
201.46	0.00	201.98	0.02	202.50	0.80	203.02	1.33
201.47	0.00	201.99	0.03	202.51	0.81	203.03	1.35
201.48	0.00	202.00	0.03	202.52	0.82	203.04	1.38
201.49	0.00	202.01	0.04	202.53	0.83	203.05	1.42
201.50	0.00	202.02	0.05	202.54	0.85	203.06	1.46
201.51	0.00	202.03	0.06	202.55	0.86	203.07	1.51

Stage-Discharge for Pond B-12: Basin #12 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
203.08	1.57	203.60	7.35	204.12	15.64	204.64	22.37
203.09	1.63	203.61	7.50	204.13	15.65	204.65	23.06
203.10	1.69	203.62	7.65	204.14	15.66	204.66	23.77
203.11	1.75	203.63	7.80	204.15	15.67	204.67	24.50
203.12	1.82	203.64	7.95	204.16	15.69	204.68	25.26
203.13	1.89	203.65	8.11	204.17	15.70	204.69	26.03
203.14	1.96	203.66	8.26	204.18	15.71	204.70	26.83
203.15	2.04	203.67	8.42	204.19	15.72	204.71	27.69
203.16	2.12	203.68	8.57	204.20	15.73	204.72	28.57
203.17	2.20	203.69	8.73	204.21	15.74	204.73	29.48
203.18	2.28	203.70	8.89	204.22	15.75	204.74	30.41
203.19	2.37	203.71	9.05	204.23	15.76	204.75	31.37
203.20	2.46	203.72	9.21	204.24	15.77	204.76	32.36
203.21	2.55	203.73	9.37	204.25	15.78	204.77	33.37
203.22	2.64	203.74	9.53	204.26	15.79	204.78	34.40
203.23	2.74	203.75	9.69	204.27	15.81	204.79	35.46
203.24	2.83	203.76	9.86	204.28	15.82	204.80	36.54
203.25	2.93	203.77	10.02	204.29	15.83	204.81	37.65
203.26	3.03	203.78	10.19	204.30	15.84	204.82	38.78
203.27	3.13	203.79	10.35	204.31	15.85	204.83	39.94
203.28	3.24	203.80	10.52	204.32	15.86	204.84	41.12
203.29	3.34	203.81	10.69	204.33	15.87	204.85	42.32
203.30	3.45	203.82	10.86	204.34	15.88	204.86	43.55
203.31	3.56	203.83	11.03	204.35	15.89	204.87	44.80
203.32	3.67	203.84	11.20	204.36	15.90	204.88	46.08
203.33	3.78	203.85	11.37	204.37	15.91	204.89	47.38
203.34	3.90	203.86	11.54	204.38	15.92	204.90	48.71
203.35	4.01	203.87	11.72	204.39	15.94	204.91	50.08
203.36	4.13	203.88	11.89	204.40	15.95	204.92	51.48
203.37	4.25	203.89	12.07	204.41	15.96	204.93	52.91
203.38	4.37	203.90	12.24	204.42	15.97	204.94	54.37
203.39	4.49	203.91	12.42	204.43	15.98	204.95	55.85
203.40	4.62	203.92	12.60	204.44	15.99	204.96	57.35
203.41	4.74	203.93	12.77	204.45	16.00	204.97	58.89
203.42	4.87	203.94	12.95	204.46	16.01	204.98	60.45
203.43	4.99	203.95	13.13	204.47	16.02	204.99	62.03
203.44	5.12	203.96	13.31	204.48	16.03	205.00	63.65
203.45	5.25	203.97	13.49	204.49	16.04		
203.46	5.38	203.98	13.68	204.50	16.05		
203.47	5.52	203.99	13.86	204.51	16.18		
203.48	5.65	204.00	14.04	204.52	16.41		
203.49	5.79	204.01	14.23	204.53	16.69		
203.50	5.92	204.02	14.41	204.54	17.03		
203.51	6.06	204.03	14.60	204.55	17.42		
203.52	6.20	204.04	14.78	204.56	17.84		
203.53	6.34	204.05	14.97	204.57	18.30		
203.54	6.48	204.06	15.16	204.58	18.80		
203.55	6.62	204.07	15.35	204.59	19.32		
203.56	6.77	204.08	15.54	204.60	19.88		
203.57	6.91	204.09	15.61	204.61	20.46		
203.58	7.06	204.10	15.62	204.62	21.07		
203.59	7.20	204.11	15.63	204.63	21.71		

Stage-Area-Storage for Pond B-12: Basin #12

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
201.00	4,623	0	201.52	5,001	2,502
201.01	4,630	46	201.53	5,008	2,552
201.02	4,638	93	201.54	5,016	2,602
201.03	4,645	139	201.55	5,023	2,653
201.04	4,652	186	201.56	5,030	2,703
201.05	4,659	232	201.57	5,037	2,753
201.06	4,667	279	201.58	5,045	2,804
201.07	4,674	325	201.59	5,052	2,854
201.08	4,681	372	201.60	5,059	2,905
201.09	4,688	419	201.61	5,066	2,955
201.10	4,696	466	201.62	5,074	3,006
201.11	4,703	513	201.63	5,081	3,057
201.12	4,710	560	201.64	5,088	3,108
201.13	4,718	607	201.65	5,096	3,159
201.14	4,725	654	201.66	5,103	3,210
201.15	4,732	702	201.67	5,110	3,261
201.16	4,739	749	201.68	5,117	3,312
201.17	4,747	796	201.69	5,125	3,363
201.18	4,754	844	201.70	5,132	3,414
201.19	4,761	891	201.71	5,139	3,466
201.20	4,768	939	201.72	5,146	3,517
201.21	4,776	987	201.73	5,154	3,568
201.22	4,783	1,035	201.74	5,161	3,620
201.23	4,790	1,083	201.75	5,168	3,672
201.24	4,797	1,130	201.76	5,176	3,723
201.25	4,805	1,178	201.77	5,183	3,775
201.26	4,812	1,227	201.78	5,190	3,827
201.27	4,819	1,275	201.79	5,197	3,879
201.28	4,827	1,323	201.80	5,205	3,931
201.29	4,834	1,371	201.81	5,212	3,983
201.30	4,841	1,420	201.82	5,219	4,035
201.31	4,848	1,468	201.83	5,226	4,088
201.32	4,856	1,517	201.84	5,234	4,140
201.33	4,863	1,565	201.85	5,241	4,192
201.34	4,870	1,614	201.86	5,248	4,245
201.35	4,877	1,663	201.87	5,255	4,297
201.36	4,885	1,711	201.88	5,263	4,350
201.37	4,892	1,760	201.89	5,270	4,402
201.38	4,899	1,809	201.90	5,277	4,455
201.39	4,907	1,858	201.91	5,285	4,508
201.40	4,914	1,907	201.92	5,292	4,561
201.41	4,921	1,957	201.93	5,299	4,614
201.42	4,928	2,006	201.94	5,306	4,667
201.43	4,936	2,055	201.95	5,314	4,720
201.44	4,943	2,104	201.96	5,321	4,773
201.45	4,950	2,154	201.97	5,328	4,826
201.46	4,957	2,203	201.98	5,335	4,880
201.47	4,965	2,253	201.99	5,343	4,933
201.48	4,972	2,303	202.00	5,350	4,987
201.49	4,979	2,353	202.01	5,358	5,040
201.50	4,987	2,402	202.02	5,365	5,094
201.51	4,994	2,452	202.03	5,373	5,147

Stage-Area-Storage for Pond B-12: Basin #12 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
202.04	5,380	5,201	202.56	5,773	8,101
202.05	5,388	5,255	202.57	5,780	8,159
202.06	5,395	5,309	202.58	5,788	8,216
202.07	5,403	5,363	202.59	5,795	8,274
202.08	5,410	5,417	202.60	5,803	8,332
202.09	5,418	5,471	202.61	5,811	8,390
202.10	5,425	5,525	202.62	5,818	8,449
202.11	5,433	5,580	202.63	5,826	8,507
202.12	5,441	5,634	202.64	5,833	8,565
202.13	5,448	5,688	202.65	5,841	8,623
202.14	5,456	5,743	202.66	5,848	8,682
202.15	5,463	5,797	202.67	5,856	8,740
202.16	5,471	5,852	202.68	5,863	8,799
202.17	5,478	5,907	202.69	5,871	8,858
202.18	5,486	5,962	202.70	5,878	8,916
202.19	5,493	6,017	202.71	5,886	8,975
202.20	5,501	6,072	202.72	5,894	9,034
202.21	5,509	6,127	202.73	5,901	9,093
202.22	5,516	6,182	202.74	5,909	9,152
202.23	5,524	6,237	202.75	5,916	9,211
202.24	5,531	6,292	202.76	5,924	9,271
202.25	5,539	6,348	202.77	5,931	9,330
202.26	5,546	6,403	202.78	5,939	9,389
202.27	5,554	6,459	202.79	5,946	9,449
202.28	5,561	6,514	202.80	5,954	9,508
202.29	5,569	6,570	202.81	5,962	9,568
202.30	5,577	6,625	202.82	5,969	9,627
202.31	5,584	6,681	202.83	5,977	9,687
202.32	5,592	6,737	202.84	5,984	9,747
202.33	5,599	6,793	202.85	5,992	9,807
202.34	5,607	6,849	202.86	5,999	9,867
202.35	5,614	6,905	202.87	6,007	9,927
202.36	5,622	6,961	202.88	6,014	9,987
202.37	5,629	7,018	202.89	6,022	10,047
202.38	5,637	7,074	202.90	6,030	10,107
202.39	5,644	7,130	202.91	6,037	10,168
202.40	5,652	7,187	202.92	6,045	10,228
202.41	5,660	7,243	202.93	6,052	10,288
202.42	5,667	7,300	202.94	6,060	10,349
202.43	5,675	7,357	202.95	6,067	10,410
202.44	5,682	7,414	202.96	6,075	10,470
202.45	5,690	7,470	202.97	6,082	10,531
202.46	5,697	7,527	202.98	6,090	10,592
202.47	5,705	7,584	202.99	6,097	10,653
202.48	5,712	7,641	203.00	6,105	10,714
202.49	5,720	7,699	203.01	6,113	10,775
202.50	5,728	7,756	203.02	6,121	10,836
202.51	5,735	7,813	203.03	6,128	10,898
202.52	5,743	7,871	203.04	6,136	10,959
202.53	5,750	7,928	203.05	6,144	11,020
202.54	5,758	7,986	203.06	6,152	11,082
202.55	5,765	8,043	203.07	6,159	11,143

Stage-Area-Storage for Pond B-12: Basin #12 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
203.08	6,167	11,205	203.60	6,572	14,517
203.09	6,175	11,267	203.61	6,580	14,583
203.10	6,183	11,328	203.62	6,587	14,649
203.11	6,191	11,390	203.63	6,595	14,715
203.12	6,198	11,452	203.64	6,603	14,781
203.13	6,206	11,514	203.65	6,611	14,847
203.14	6,214	11,576	203.66	6,618	14,913
203.15	6,222	11,639	203.67	6,626	14,979
203.16	6,229	11,701	203.68	6,634	15,045
203.17	6,237	11,763	203.69	6,642	15,112
203.18	6,245	11,826	203.70	6,650	15,178
203.19	6,253	11,888	203.71	6,657	15,245
203.20	6,261	11,951	203.72	6,665	15,311
203.21	6,268	12,013	203.73	6,673	15,378
203.22	6,276	12,076	203.74	6,681	15,445
203.23	6,284	12,139	203.75	6,689	15,512
203.24	6,292	12,202	203.76	6,696	15,578
203.25	6,300	12,265	203.77	6,704	15,645
203.26	6,307	12,328	203.78	6,712	15,713
203.27	6,315	12,391	203.79	6,720	15,780
203.28	6,323	12,454	203.80	6,727	15,847
203.29	6,331	12,517	203.81	6,735	15,914
203.30	6,338	12,581	203.82	6,743	15,982
203.31	6,346	12,644	203.83	6,751	16,049
203.32	6,354	12,707	203.84	6,759	16,117
203.33	6,362	12,771	203.85	6,766	16,184
203.34	6,370	12,835	203.86	6,774	16,252
203.35	6,377	12,898	203.87	6,782	16,320
203.36	6,385	12,962	203.88	6,790	16,388
203.37	6,393	13,026	203.89	6,797	16,456
203.38	6,401	13,090	203.90	6,805	16,524
203.39	6,408	13,154	203.91	6,813	16,592
203.40	6,416	13,218	203.92	6,821	16,660
203.41	6,424	13,282	203.93	6,829	16,728
203.42	6,432	13,347	203.94	6,836	16,796
203.43	6,440	13,411	203.95	6,844	16,865
203.44	6,447	13,476	203.96	6,852	16,933
203.45	6,455	13,540	203.97	6,860	17,002
203.46	6,463	13,605	203.98	6,867	17,070
203.47	6,471	13,669	203.99	6,875	17,139
203.48	6,478	13,734	204.00	6,883	17,208
203.49	6,486	13,799	204.01	6,891	17,277
203.50	6,494	13,864	204.02	6,899	17,346
203.51	6,502	13,929	204.03	6,907	17,415
203.52	6,510	13,994	204.04	6,915	17,484
203.53	6,517	14,059	204.05	6,923	17,553
203.54	6,525	14,124	204.06	6,930	17,622
203.55	6,533	14,189	204.07	6,938	17,692
203.56	6,541	14,255	204.08	6,946	17,761
203.57	6,548	14,320	204.09	6,954	17,831
203.58	6,556	14,386	204.10	6,962	17,900
203.59	6,564	14,451	204.11	6,970	17,970

Stage-Area-Storage for Pond B-12: Basin #12 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
204.12	6,978	18,040	204.64	7,389	21,775
204.13	6,986	18,109	204.65	7,397	21,849
204.14	6,994	18,179	204.66	7,405	21,923
204.15	7,002	18,249	204.67	7,413	21,997
204.16	7,010	18,319	204.68	7,421	22,071
204.17	7,017	18,390	204.69	7,429	22,146
204.18	7,025	18,460	204.70	7,437	22,220
204.19	7,033	18,530	204.71	7,445	22,294
204.20	7,041	18,600	204.72	7,453	22,369
204.21	7,049	18,671	204.73	7,460	22,443
204.22	7,057	18,741	204.74	7,468	22,518
204.23	7,065	18,812	204.75	7,476	22,593
204.24	7,073	18,883	204.76	7,484	22,668
204.25	7,081	18,953	204.77	7,492	22,742
204.26	7,089	19,024	204.78	7,500	22,817
204.27	7,097	19,095	204.79	7,508	22,892
204.28	7,104	19,166	204.80	7,516	22,968
204.29	7,112	19,237	204.81	7,524	23,043
204.30	7,120	19,308	204.82	7,532	23,118
204.31	7,128	19,380	204.83	7,540	23,193
204.32	7,136	19,451	204.84	7,547	23,269
204.33	7,144	19,522	204.85	7,555	23,344
204.34	7,152	19,594	204.86	7,563	23,420
204.35	7,160	19,665	204.87	7,571	23,496
204.36	7,168	19,737	204.88	7,579	23,571
204.37	7,176	19,809	204.89	7,587	23,647
204.38	7,184	19,881	204.90	7,595	23,723
204.39	7,191	19,953	204.91	7,603	23,799
204.40	7,199	20,024	204.92	7,611	23,875
204.41	7,207	20,097	204.93	7,619	23,951
204.42	7,215	20,169	204.94	7,627	24,027
204.43	7,223	20,241	204.95	7,634	24,104
204.44	7,231	20,313	204.96	7,642	24,180
204.45	7,239	20,385	204.97	7,650	24,257
204.46	7,247	20,458	204.98	7,658	24,333
204.47	7,255	20,530	204.99	7,666	24,410
204.48	7,263	20,603	205.00	7,674	24,487
204.49	7,271	20,676			
204.50	7,279	20,748			
204.51	7,286	20,821			
204.52	7,294	20,894			
204.53	7,302	20,967			
204.54	7,310	21,040			
204.55	7,318	21,113			
204.56	7,326	21,187			
204.57	7,334	21,260			
204.58	7,342	21,333			
204.59	7,350	21,407			
204.60	7,358	21,480			
204.61	7,366	21,554			
204.62	7,373	21,627			
204.63	7,381	21,701			

Summary for Pond B-13: Basin #13

Inflow Area = 2.350 ac, 62.43% Impervious, Inflow Depth = 7.26" for Current 100 yr event
 Inflow = 16.80 cfs @ 12.17 hrs, Volume= 1.422 af
 Outflow = 10.77 cfs @ 12.29 hrs, Volume= 1.203 af, Atten= 36%, Lag= 7.1 min
 Primary = 10.77 cfs @ 12.29 hrs, Volume= 1.203 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 194.84' @ 12.29 hrs Surf.Area= 10,385 sf Storage= 26,057 cf

Plug-Flow detention time= 314.8 min calculated for 1.203 af (85% of inflow)
 Center-of-Mass det. time= 244.9 min (1,010.8 - 765.9)

Volume	Invert	Avail.Storage	Storage Description
#1	192.00'	38,667 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
192.00	7,975	0	0
193.00	8,804	8,390	8,390
194.00	9,654	9,229	17,619
195.00	10,522	10,088	27,707
196.00	11,399	10,961	38,667

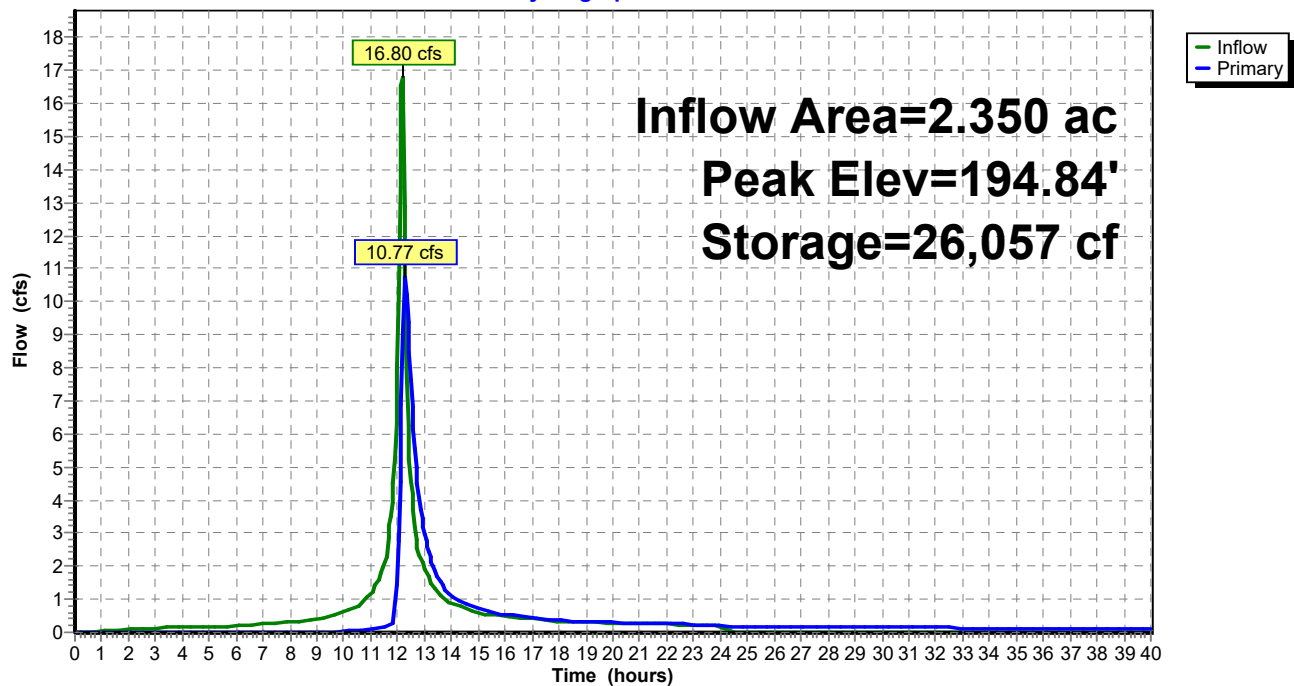
Device	Routing	Invert	Outlet Devices
#1	Primary	190.65'	18.0" Round Culvert L= 57.0' Ke= 0.500 Inlet / Outlet Invert= 190.65' / 188.00' S= 0.0465 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	192.70'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	193.95'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	194.96'	50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=10.70 cfs @ 12.29 hrs HW=194.84' (Free Discharge)

1=Culvert (Passes 10.70 cfs of 15.78 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.23 cfs @ 6.87 fps)
 3=Sharp-Crested Rectangular Weir (Weir Controls 10.47 cfs @ 3.08 fps)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-13: Basin #13

Hydrograph



Stage-Discharge for Pond B-13: Basin #13

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
192.00	0.00	192.52	0.00	193.04	0.08	193.56	0.14
192.01	0.00	192.53	0.00	193.05	0.08	193.57	0.14
192.02	0.00	192.54	0.00	193.06	0.08	193.58	0.14
192.03	0.00	192.55	0.00	193.07	0.08	193.59	0.15
192.04	0.00	192.56	0.00	193.08	0.09	193.60	0.15
192.05	0.00	192.57	0.00	193.09	0.09	193.61	0.15
192.06	0.00	192.58	0.00	193.10	0.09	193.62	0.15
192.07	0.00	192.59	0.00	193.11	0.09	193.63	0.15
192.08	0.00	192.60	0.00	193.12	0.09	193.64	0.15
192.09	0.00	192.61	0.00	193.13	0.09	193.65	0.15
192.10	0.00	192.62	0.00	193.14	0.10	193.66	0.15
192.11	0.00	192.63	0.00	193.15	0.10	193.67	0.15
192.12	0.00	192.64	0.00	193.16	0.10	193.68	0.15
192.13	0.00	192.65	0.00	193.17	0.10	193.69	0.15
192.14	0.00	192.66	0.00	193.18	0.10	193.70	0.16
192.15	0.00	192.67	0.00	193.19	0.10	193.71	0.16
192.16	0.00	192.68	0.00	193.20	0.10	193.72	0.16
192.17	0.00	192.69	0.00	193.21	0.10	193.73	0.16
192.18	0.00	192.70	0.00	193.22	0.11	193.74	0.16
192.19	0.00	192.71	0.00	193.23	0.11	193.75	0.16
192.20	0.00	192.72	0.00	193.24	0.11	193.76	0.16
192.21	0.00	192.73	0.00	193.25	0.11	193.77	0.16
192.22	0.00	192.74	0.00	193.26	0.11	193.78	0.16
192.23	0.00	192.75	0.00	193.27	0.11	193.79	0.16
192.24	0.00	192.76	0.01	193.28	0.11	193.80	0.16
192.25	0.00	192.77	0.01	193.29	0.11	193.81	0.16
192.26	0.00	192.78	0.01	193.30	0.12	193.82	0.17
192.27	0.00	192.79	0.01	193.31	0.12	193.83	0.17
192.28	0.00	192.80	0.02	193.32	0.12	193.84	0.17
192.29	0.00	192.81	0.02	193.33	0.12	193.85	0.17
192.30	0.00	192.82	0.02	193.34	0.12	193.86	0.17
192.31	0.00	192.83	0.03	193.35	0.12	193.87	0.17
192.32	0.00	192.84	0.03	193.36	0.12	193.88	0.17
192.33	0.00	192.85	0.03	193.37	0.12	193.89	0.17
192.34	0.00	192.86	0.04	193.38	0.12	193.90	0.17
192.35	0.00	192.87	0.04	193.39	0.13	193.91	0.17
192.36	0.00	192.88	0.05	193.40	0.13	193.92	0.17
192.37	0.00	192.89	0.05	193.41	0.13	193.93	0.17
192.38	0.00	192.90	0.05	193.42	0.13	193.94	0.17
192.39	0.00	192.91	0.05	193.43	0.13	193.95	0.18
192.40	0.00	192.92	0.06	193.44	0.13	193.96	0.19
192.41	0.00	192.93	0.06	193.45	0.13	193.97	0.21
192.42	0.00	192.94	0.06	193.46	0.13	193.98	0.25
192.43	0.00	192.95	0.06	193.47	0.13	193.99	0.28
192.44	0.00	192.96	0.06	193.48	0.13	194.00	0.33
192.45	0.00	192.97	0.07	193.49	0.14	194.01	0.37
192.46	0.00	192.98	0.07	193.50	0.14	194.02	0.42
192.47	0.00	192.99	0.07	193.51	0.14	194.03	0.48
192.48	0.00	193.00	0.07	193.52	0.14	194.04	0.53
192.49	0.00	193.01	0.07	193.53	0.14	194.05	0.59
192.50	0.00	193.02	0.08	193.54	0.14	194.06	0.66
192.51	0.00	193.03	0.08	193.55	0.14	194.07	0.73

Stage-Discharge for Pond B-13: Basin #13 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
194.08	0.79	194.60	6.85	195.12	23.38	195.64	95.46
194.09	0.87	194.61	7.00	195.13	24.29	195.65	97.21
194.10	0.94	194.62	7.15	195.14	25.23	195.66	98.98
194.11	1.02	194.63	7.31	195.15	26.19	195.67	100.76
194.12	1.10	194.64	7.46	195.16	27.06	195.68	102.55
194.13	1.18	194.65	7.62	195.17	27.93	195.69	104.36
194.14	1.26	194.66	7.77	195.18	28.83	195.70	106.17
194.15	1.35	194.67	7.93	195.19	29.75	195.71	108.00
194.16	1.44	194.68	8.09	195.20	30.69	195.72	109.84
194.17	1.53	194.69	8.24	195.21	31.66	195.73	111.70
194.18	1.62	194.70	8.40	195.22	32.66	195.74	113.56
194.19	1.71	194.71	8.56	195.23	33.68	195.75	115.44
194.20	1.81	194.72	8.72	195.24	34.72	195.76	117.33
194.21	1.91	194.73	8.89	195.25	35.79	195.77	119.27
194.22	2.01	194.74	9.05	195.26	36.89	195.78	121.22
194.23	2.11	194.75	9.21	195.27	38.00	195.79	123.19
194.24	2.21	194.76	9.38	195.28	39.15	195.80	125.17
194.25	2.31	194.77	9.54	195.29	40.31	195.81	127.16
194.26	2.42	194.78	9.71	195.30	41.51	195.82	129.17
194.27	2.53	194.79	9.88	195.31	42.72	195.83	131.19
194.28	2.64	194.80	10.05	195.32	43.96	195.84	133.22
194.29	2.75	194.81	10.22	195.33	45.23	195.85	135.27
194.30	2.86	194.82	10.39	195.34	46.51	195.86	137.32
194.31	2.98	194.83	10.56	195.35	47.83	195.87	139.39
194.32	3.09	194.84	10.73	195.36	49.16	195.88	141.48
194.33	3.21	194.85	10.90	195.37	50.55	195.89	143.57
194.34	3.33	194.86	11.07	195.38	51.96	195.90	145.68
194.35	3.45	194.87	11.25	195.39	53.40	195.91	147.80
194.36	3.57	194.88	11.42	195.40	54.87	195.92	149.94
194.37	3.69	194.89	11.60	195.41	56.36	195.93	152.09
194.38	3.81	194.90	11.77	195.42	57.88	195.94	154.25
194.39	3.94	194.91	11.95	195.43	59.42	195.95	156.42
194.40	4.07	194.92	12.13	195.44	60.99	195.96	158.60
194.41	4.19	194.93	12.31	195.45	62.59	195.97	160.75
194.42	4.32	194.94	12.49	195.46	64.21	195.98	162.90
194.43	4.45	194.95	12.67	195.47	65.86	195.99	165.07
194.44	4.59	194.96	12.85	195.48	67.53	196.00	167.24
194.45	4.72	194.97	13.15	195.49	69.24		
194.46	4.85	194.98	13.54	195.50	70.97		
194.47	4.99	194.99	14.00	195.51	72.72		
194.48	5.13	195.00	14.52	195.52	74.50		
194.49	5.26	195.01	15.07	195.53	76.31		
194.50	5.40	195.02	15.67	195.54	78.15		
194.51	5.54	195.03	16.31	195.55	80.01		
194.52	5.68	195.04	16.98	195.56	81.90		
194.53	5.83	195.05	17.68	195.57	83.55		
194.54	5.97	195.06	18.41	195.58	85.21		
194.55	6.11	195.07	19.17	195.59	86.89		
194.56	6.26	195.08	19.96	195.60	88.58		
194.57	6.41	195.09	20.78	195.61	90.28		
194.58	6.55	195.10	21.62	195.62	91.99		
194.59	6.70	195.11	22.49	195.63	93.72		

Stage-Area-Storage for Pond B-13: Basin #13

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
192.00	7,975	0	192.52	8,406	4,259
192.01	7,983	80	192.53	8,414	4,343
192.02	7,992	160	192.54	8,423	4,427
192.03	8,000	240	192.55	8,431	4,512
192.04	8,008	320	192.56	8,439	4,596
192.05	8,016	400	192.57	8,448	4,680
192.06	8,025	480	192.58	8,456	4,765
192.07	8,033	560	192.59	8,464	4,850
192.08	8,041	641	192.60	8,472	4,934
192.09	8,050	721	192.61	8,481	5,019
192.10	8,058	802	192.62	8,489	5,104
192.11	8,066	882	192.63	8,497	5,189
192.12	8,074	963	192.64	8,506	5,274
192.13	8,083	1,044	192.65	8,514	5,359
192.14	8,091	1,125	192.66	8,522	5,444
192.15	8,099	1,206	192.67	8,530	5,529
192.16	8,108	1,287	192.68	8,539	5,615
192.17	8,116	1,368	192.69	8,547	5,700
192.18	8,124	1,449	192.70	8,555	5,786
192.19	8,133	1,530	192.71	8,564	5,871
192.20	8,141	1,612	192.72	8,572	5,957
192.21	8,149	1,693	192.73	8,580	6,043
192.22	8,157	1,775	192.74	8,588	6,128
192.23	8,166	1,856	192.75	8,597	6,214
192.24	8,174	1,938	192.76	8,605	6,300
192.25	8,182	2,020	192.77	8,613	6,387
192.26	8,191	2,102	192.78	8,622	6,473
192.27	8,199	2,183	192.79	8,630	6,559
192.28	8,207	2,265	192.80	8,638	6,645
192.29	8,215	2,348	192.81	8,646	6,732
192.30	8,224	2,430	192.82	8,655	6,818
192.31	8,232	2,512	192.83	8,663	6,905
192.32	8,240	2,594	192.84	8,671	6,991
192.33	8,249	2,677	192.85	8,680	7,078
192.34	8,257	2,759	192.86	8,688	7,165
192.35	8,265	2,842	192.87	8,696	7,252
192.36	8,273	2,925	192.88	8,705	7,339
192.37	8,282	3,007	192.89	8,713	7,426
192.38	8,290	3,090	192.90	8,721	7,513
192.39	8,298	3,173	192.91	8,729	7,600
192.40	8,307	3,256	192.92	8,738	7,688
192.41	8,315	3,339	192.93	8,746	7,775
192.42	8,323	3,423	192.94	8,754	7,863
192.43	8,331	3,506	192.95	8,763	7,950
192.44	8,340	3,589	192.96	8,771	8,038
192.45	8,348	3,673	192.97	8,779	8,126
192.46	8,356	3,756	192.98	8,787	8,214
192.47	8,365	3,840	192.99	8,796	8,302
192.48	8,373	3,924	193.00	8,804	8,390
192.49	8,381	4,007	193.01	8,812	8,478
192.50	8,390	4,091	193.02	8,821	8,566
192.51	8,398	4,175	193.03	8,830	8,654

Stage-Area-Storage for Pond B-13: Basin #13 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
193.04	8,838	8,742	193.56	9,280	13,453
193.05	8,847	8,831	193.57	9,288	13,546
193.06	8,855	8,919	193.58	9,297	13,639
193.07	8,863	9,008	193.59	9,306	13,732
193.08	8,872	9,097	193.60	9,314	13,825
193.09	8,881	9,185	193.61	9,323	13,918
193.10	8,889	9,274	193.62	9,331	14,011
193.11	8,898	9,363	193.63	9,339	14,105
193.12	8,906	9,452	193.64	9,348	14,198
193.13	8,914	9,541	193.65	9,357	14,292
193.14	8,923	9,630	193.66	9,365	14,385
193.15	8,932	9,720	193.67	9,373	14,479
193.16	8,940	9,809	193.68	9,382	14,573
193.17	8,948	9,898	193.69	9,390	14,667
193.18	8,957	9,988	193.70	9,399	14,761
193.19	8,965	10,078	193.71	9,408	14,855
193.20	8,974	10,167	193.72	9,416	14,949
193.21	8,983	10,257	193.73	9,424	15,043
193.22	8,991	10,347	193.74	9,433	15,137
193.23	8,999	10,437	193.75	9,442	15,232
193.24	9,008	10,527	193.76	9,450	15,326
193.25	9,017	10,617	193.77	9,459	15,421
193.26	9,025	10,707	193.78	9,467	15,515
193.27	9,034	10,798	193.79	9,475	15,610
193.28	9,042	10,888	193.80	9,484	15,705
193.29	9,050	10,978	193.81	9,493	15,800
193.30	9,059	11,069	193.82	9,501	15,895
193.31	9,068	11,160	193.83	9,510	15,990
193.32	9,076	11,250	193.84	9,518	16,085
193.33	9,085	11,341	193.85	9,526	16,180
193.34	9,093	11,432	193.86	9,535	16,275
193.35	9,101	11,523	193.87	9,544	16,371
193.36	9,110	11,614	193.88	9,552	16,466
193.37	9,119	11,705	193.89	9,560	16,562
193.38	9,127	11,796	193.90	9,569	16,657
193.39	9,135	11,888	193.91	9,577	16,753
193.40	9,144	11,979	193.92	9,586	16,849
193.41	9,152	12,071	193.93	9,595	16,945
193.42	9,161	12,162	193.94	9,603	17,041
193.43	9,170	12,254	193.95	9,611	17,137
193.44	9,178	12,346	193.96	9,620	17,233
193.45	9,186	12,437	193.97	9,628	17,329
193.46	9,195	12,529	193.98	9,637	17,426
193.47	9,203	12,621	193.99	9,646	17,522
193.48	9,212	12,713	194.00	9,654	17,619
193.49	9,221	12,806	194.01	9,663	17,715
193.50	9,229	12,898	194.02	9,671	17,812
193.51	9,237	12,990	194.03	9,680	17,909
193.52	9,246	13,083	194.04	9,689	18,005
193.53	9,255	13,175	194.05	9,697	18,102
193.54	9,263	13,268	194.06	9,706	18,199
193.55	9,272	13,360	194.07	9,715	18,296

Stage-Area-Storage for Pond B-13: Basin #13 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
194.08	9,723	18,394	194.60	10,175	23,567
194.09	9,732	18,491	194.61	10,183	23,669
194.10	9,741	18,588	194.62	10,192	23,771
194.11	9,749	18,686	194.63	10,201	23,873
194.12	9,758	18,783	194.64	10,210	23,975
194.13	9,767	18,881	194.65	10,218	24,077
194.14	9,776	18,979	194.66	10,227	24,179
194.15	9,784	19,076	194.67	10,236	24,282
194.16	9,793	19,174	194.68	10,244	24,384
194.17	9,802	19,272	194.69	10,253	24,486
194.18	9,810	19,370	194.70	10,262	24,589
194.19	9,819	19,468	194.71	10,270	24,692
194.20	9,828	19,567	194.72	10,279	24,794
194.21	9,836	19,665	194.73	10,288	24,897
194.22	9,845	19,763	194.74	10,296	25,000
194.23	9,854	19,862	194.75	10,305	25,103
194.24	9,862	19,960	194.76	10,314	25,206
194.25	9,871	20,059	194.77	10,322	25,309
194.26	9,880	20,158	194.78	10,331	25,413
194.27	9,888	20,257	194.79	10,340	25,516
194.28	9,897	20,356	194.80	10,348	25,619
194.29	9,906	20,455	194.81	10,357	25,723
194.30	9,914	20,554	194.82	10,366	25,827
194.31	9,923	20,653	194.83	10,374	25,930
194.32	9,932	20,752	194.84	10,383	26,034
194.33	9,940	20,852	194.85	10,392	26,138
194.34	9,949	20,951	194.86	10,400	26,242
194.35	9,958	21,051	194.87	10,409	26,346
194.36	9,966	21,150	194.88	10,418	26,450
194.37	9,975	21,250	194.89	10,427	26,554
194.38	9,984	21,350	194.90	10,435	26,659
194.39	9,993	21,450	194.91	10,444	26,763
194.40	10,001	21,550	194.92	10,453	26,868
194.41	10,010	21,650	194.93	10,461	26,972
194.42	10,019	21,750	194.94	10,470	27,077
194.43	10,027	21,850	194.95	10,479	27,181
194.44	10,036	21,950	194.96	10,487	27,286
194.45	10,045	22,051	194.97	10,496	27,391
194.46	10,053	22,151	194.98	10,505	27,496
194.47	10,062	22,252	194.99	10,513	27,601
194.48	10,071	22,352	195.00	10,522	27,707
194.49	10,079	22,453	195.01	10,531	27,812
194.50	10,088	22,554	195.02	10,540	27,917
194.51	10,097	22,655	195.03	10,548	28,023
194.52	10,105	22,756	195.04	10,557	28,128
194.53	10,114	22,857	195.05	10,566	28,234
194.54	10,123	22,958	195.06	10,575	28,339
194.55	10,131	23,059	195.07	10,583	28,445
194.56	10,140	23,161	195.08	10,592	28,551
194.57	10,149	23,262	195.09	10,601	28,657
194.58	10,157	23,364	195.10	10,610	28,763
194.59	10,166	23,465	195.11	10,618	28,869

Stage-Area-Storage for Pond B-13: Basin #13 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
195.12	10,627	28,975	195.64	11,083	34,620
195.13	10,636	29,082	195.65	11,092	34,731
195.14	10,645	29,188	195.66	11,101	34,842
195.15	10,654	29,295	195.67	11,110	34,953
195.16	10,662	29,401	195.68	11,118	35,064
195.17	10,671	29,508	195.69	11,127	35,175
195.18	10,680	29,615	195.70	11,136	35,287
195.19	10,689	29,722	195.71	11,145	35,398
195.20	10,697	29,828	195.72	11,153	35,510
195.21	10,706	29,935	195.73	11,162	35,621
195.22	10,715	30,043	195.74	11,171	35,733
195.23	10,724	30,150	195.75	11,180	35,845
195.24	10,732	30,257	195.76	11,189	35,956
195.25	10,741	30,364	195.77	11,197	36,068
195.26	10,750	30,472	195.78	11,206	36,180
195.27	10,759	30,579	195.79	11,215	36,293
195.28	10,768	30,687	195.80	11,224	36,405
195.29	10,776	30,795	195.81	11,232	36,517
195.30	10,785	30,903	195.82	11,241	36,629
195.31	10,794	31,010	195.83	11,250	36,742
195.32	10,803	31,118	195.84	11,259	36,854
195.33	10,811	31,227	195.85	11,267	36,967
195.34	10,820	31,335	195.86	11,276	37,080
195.35	10,829	31,443	195.87	11,285	37,193
195.36	10,838	31,551	195.88	11,294	37,305
195.37	10,846	31,660	195.89	11,303	37,418
195.38	10,855	31,768	195.90	11,311	37,531
195.39	10,864	31,877	195.91	11,320	37,645
195.40	10,873	31,985	195.92	11,329	37,758
195.41	10,882	32,094	195.93	11,338	37,871
195.42	10,890	32,203	195.94	11,346	37,985
195.43	10,899	32,312	195.95	11,355	38,098
195.44	10,908	32,421	195.96	11,364	38,212
195.45	10,917	32,530	195.97	11,373	38,325
195.46	10,925	32,639	195.98	11,381	38,439
195.47	10,934	32,749	195.99	11,390	38,553
195.48	10,943	32,858	196.00	11,399	38,667
195.49	10,952	32,968			
195.50	10,961	33,077			
195.51	10,969	33,187			
195.52	10,978	33,297			
195.53	10,987	33,406			
195.54	10,996	33,516			
195.55	11,004	33,626			
195.56	11,013	33,736			
195.57	11,022	33,847			
195.58	11,031	33,957			
195.59	11,039	34,067			
195.60	11,048	34,178			
195.61	11,057	34,288			
195.62	11,066	34,399			
195.63	11,075	34,509			

Summary for Pond B-14: Basin #14

Inflow Area = 2.148 ac, 23.65% Impervious, Inflow Depth = 6.14" for Current 100 yr event
 Inflow = 13.79 cfs @ 12.17 hrs, Volume= 1.099 af
 Outflow = 9.09 cfs @ 12.29 hrs, Volume= 0.989 af, Atten= 34%, Lag= 6.9 min
 Primary = 9.09 cfs @ 12.29 hrs, Volume= 0.989 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 194.24' @ 12.29 hrs Surf.Area= 8,553 sf Storage= 17,697 cf

Plug-Flow detention time= 268.1 min calculated for 0.987 af (90% of inflow)
 Center-of-Mass det. time= 217.9 min (1,013.7 - 795.9)

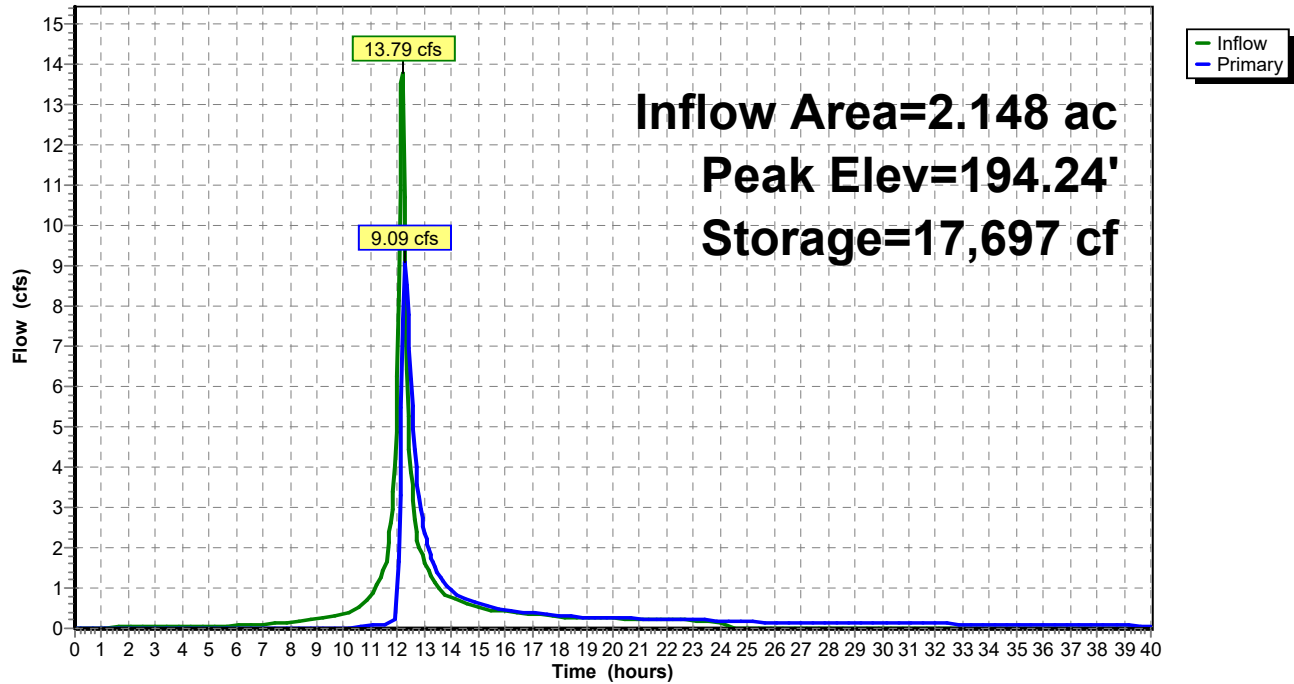
Volume	Invert	Avail.Storage	Storage Description
#1	192.00'	24,345 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
192.00	7,240	0	0
193.00	7,814	7,527	7,527
194.00	8,405	8,110	15,637
195.00	9,012	8,709	24,345

Device	Routing	Invert	Outlet Devices
#1	Primary	190.65'	18.0" Round Culvert L= 194.0' Ke= 0.500 Inlet / Outlet Invert= 190.65' / 188.00' S= 0.0137 ' / Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	192.40'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	193.45'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	194.44'	50.0' long + 3.0 ' / SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=9.02 cfs @ 12.29 hrs HW=194.24' (Free Discharge)

1=Culvert (Passes 9.02 cfs of 13.74 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.22 cfs @ 6.34 fps)
 3=Sharp-Crested Rectangular Weir (Weir Controls 8.80 cfs @ 2.90 fps)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-14: Basin #14**Hydrograph**

Stage-Discharge for Pond B-14: Basin #14

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
192.00	0.00	192.52	0.02	193.04	0.12	193.56	0.64
192.01	0.00	192.53	0.03	193.05	0.12	193.57	0.71
192.02	0.00	192.54	0.03	193.06	0.12	193.58	0.78
192.03	0.00	192.55	0.03	193.07	0.12	193.59	0.85
192.04	0.00	192.56	0.04	193.08	0.12	193.60	0.93
192.05	0.00	192.57	0.04	193.09	0.13	193.61	1.00
192.06	0.00	192.58	0.05	193.10	0.13	193.62	1.08
192.07	0.00	192.59	0.05	193.11	0.13	193.63	1.16
192.08	0.00	192.60	0.05	193.12	0.13	193.64	1.25
192.09	0.00	192.61	0.05	193.13	0.13	193.65	1.33
192.10	0.00	192.62	0.06	193.14	0.13	193.66	1.42
192.11	0.00	192.63	0.06	193.15	0.13	193.67	1.51
192.12	0.00	192.64	0.06	193.16	0.13	193.68	1.60
192.13	0.00	192.65	0.06	193.17	0.13	193.69	1.70
192.14	0.00	192.66	0.06	193.18	0.13	193.70	1.79
192.15	0.00	192.67	0.07	193.19	0.14	193.71	1.89
192.16	0.00	192.68	0.07	193.20	0.14	193.72	1.99
192.17	0.00	192.69	0.07	193.21	0.14	193.73	2.09
192.18	0.00	192.70	0.07	193.22	0.14	193.74	2.20
192.19	0.00	192.71	0.07	193.23	0.14	193.75	2.30
192.20	0.00	192.72	0.08	193.24	0.14	193.76	2.41
192.21	0.00	192.73	0.08	193.25	0.14	193.77	2.51
192.22	0.00	192.74	0.08	193.26	0.14	193.78	2.62
192.23	0.00	192.75	0.08	193.27	0.14	193.79	2.74
192.24	0.00	192.76	0.08	193.28	0.14	193.80	2.85
192.25	0.00	192.77	0.08	193.29	0.15	193.81	2.96
192.26	0.00	192.78	0.09	193.30	0.15	193.82	3.08
192.27	0.00	192.79	0.09	193.31	0.15	193.83	3.19
192.28	0.00	192.80	0.09	193.32	0.15	193.84	3.31
192.29	0.00	192.81	0.09	193.33	0.15	193.85	3.43
192.30	0.00	192.82	0.09	193.34	0.15	193.86	3.55
192.31	0.00	192.83	0.09	193.35	0.15	193.87	3.68
192.32	0.00	192.84	0.10	193.36	0.15	193.88	3.80
192.33	0.00	192.85	0.10	193.37	0.15	193.89	3.93
192.34	0.00	192.86	0.10	193.38	0.15	193.90	4.05
192.35	0.00	192.87	0.10	193.39	0.15	193.91	4.18
192.36	0.00	192.88	0.10	193.40	0.16	193.92	4.31
192.37	0.00	192.89	0.10	193.41	0.16	193.93	4.44
192.38	0.00	192.90	0.10	193.42	0.16	193.94	4.57
192.39	0.00	192.91	0.10	193.43	0.16	193.95	4.71
192.40	0.00	192.92	0.11	193.44	0.16	193.96	4.84
192.41	0.00	192.93	0.11	193.45	0.16	193.97	4.98
192.42	0.00	192.94	0.11	193.46	0.17	193.98	5.11
192.43	0.00	192.95	0.11	193.47	0.20	193.99	5.25
192.44	0.00	192.96	0.11	193.48	0.23	194.00	5.39
192.45	0.00	192.97	0.11	193.49	0.27	194.01	5.53
192.46	0.01	192.98	0.11	193.50	0.31	194.02	5.67
192.47	0.01	192.99	0.11	193.51	0.36	194.03	5.81
192.48	0.01	193.00	0.12	193.52	0.41	194.04	5.96
192.49	0.01	193.01	0.12	193.53	0.46	194.05	6.10
192.50	0.02	193.02	0.12	193.54	0.52	194.06	6.25
192.51	0.02	193.03	0.12	193.55	0.58	194.07	6.39

Stage-Discharge for Pond B-14: Basin #14 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
194.08	6.54	194.60	21.80
194.09	6.69	194.61	22.54
194.10	6.84	194.62	23.29
194.11	6.99	194.63	24.07
194.12	7.14	194.64	24.88
194.13	7.29	194.65	25.74
194.14	7.45	194.66	26.62
194.15	7.60	194.67	27.53
194.16	7.76	194.68	28.47
194.17	7.92	194.69	29.43
194.18	8.07	194.70	30.42
194.19	8.23	194.71	31.43
194.20	8.39	194.72	32.47
194.21	8.55	194.73	33.53
194.22	8.71	194.74	34.62
194.23	8.87	194.75	35.73
194.24	9.04	194.76	36.86
194.25	9.20	194.77	38.02
194.26	9.37	194.78	39.21
194.27	9.53	194.79	40.41
194.28	9.70	194.80	41.65
194.29	9.87	194.81	42.90
194.30	10.03	194.82	44.18
194.31	10.20	194.83	45.49
194.32	10.37	194.84	46.82
194.33	10.54	194.85	48.20
194.34	10.72	194.86	49.60
194.35	10.89	194.87	51.03
194.36	11.06	194.88	52.49
194.37	11.24	194.89	53.97
194.38	11.41	194.90	55.48
194.39	11.59	194.91	57.02
194.40	11.76	194.92	58.58
194.41	11.94	194.93	60.17
194.42	12.12	194.94	61.79
194.43	12.30	194.95	63.43
194.44	12.47	194.96	65.10
194.45	12.77	194.97	66.79
194.46	13.17	194.98	68.51
194.47	13.63	194.99	70.26
194.48	14.14	195.00	72.04
194.49	14.69		
194.50	15.29		
194.51	15.92		
194.52	16.59		
194.53	17.29		
194.54	17.89		
194.55	18.48		
194.56	19.09		
194.57	19.73		
194.58	20.40		
194.59	21.09		

Stage-Area-Storage for Pond B-14: Basin #14

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
192.00	7,240	0	192.52	7,538	3,842
192.01	7,246	72	192.53	7,544	3,918
192.02	7,251	145	192.54	7,550	3,993
192.03	7,257	217	192.55	7,556	4,069
192.04	7,263	290	192.56	7,561	4,144
192.05	7,269	363	192.57	7,567	4,220
192.06	7,274	435	192.58	7,573	4,296
192.07	7,280	508	192.59	7,579	4,372
192.08	7,286	581	192.60	7,584	4,447
192.09	7,292	654	192.61	7,590	4,523
192.10	7,297	727	192.62	7,596	4,599
192.11	7,303	800	192.63	7,602	4,675
192.12	7,309	873	192.64	7,607	4,751
192.13	7,315	946	192.65	7,613	4,827
192.14	7,320	1,019	192.66	7,619	4,903
192.15	7,326	1,092	192.67	7,625	4,980
192.16	7,332	1,166	192.68	7,630	5,056
192.17	7,338	1,239	192.69	7,636	5,132
192.18	7,343	1,312	192.70	7,642	5,209
192.19	7,349	1,386	192.71	7,648	5,285
192.20	7,355	1,459	192.72	7,653	5,362
192.21	7,361	1,533	192.73	7,659	5,438
192.22	7,366	1,607	192.74	7,665	5,515
192.23	7,372	1,680	192.75	7,671	5,591
192.24	7,378	1,754	192.76	7,676	5,668
192.25	7,384	1,828	192.77	7,682	5,745
192.26	7,389	1,902	192.78	7,688	5,822
192.27	7,395	1,976	192.79	7,693	5,899
192.28	7,401	2,050	192.80	7,699	5,976
192.29	7,406	2,124	192.81	7,705	6,053
192.30	7,412	2,198	192.82	7,711	6,130
192.31	7,418	2,272	192.83	7,716	6,207
192.32	7,424	2,346	192.84	7,722	6,284
192.33	7,429	2,420	192.85	7,728	6,361
192.34	7,435	2,495	192.86	7,734	6,439
192.35	7,441	2,569	192.87	7,739	6,516
192.36	7,447	2,644	192.88	7,745	6,593
192.37	7,452	2,718	192.89	7,751	6,671
192.38	7,458	2,793	192.90	7,757	6,748
192.39	7,464	2,867	192.91	7,762	6,826
192.40	7,470	2,942	192.92	7,768	6,904
192.41	7,475	3,017	192.93	7,774	6,981
192.42	7,481	3,091	192.94	7,780	7,059
192.43	7,487	3,166	192.95	7,785	7,137
192.44	7,493	3,241	192.96	7,791	7,215
192.45	7,498	3,316	192.97	7,797	7,293
192.46	7,504	3,391	192.98	7,803	7,371
192.47	7,510	3,466	192.99	7,808	7,449
192.48	7,516	3,541	193.00	7,814	7,527
192.49	7,521	3,617	193.01	7,820	7,605
192.50	7,527	3,692	193.02	7,826	7,683
192.51	7,533	3,767	193.03	7,832	7,762

Stage-Area-Storage for Pond B-14: Basin #14 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
193.04	7,838	7,840	193.56	8,145	11,996
193.05	7,844	7,918	193.57	8,151	12,077
193.06	7,849	7,997	193.58	8,157	12,159
193.07	7,855	8,075	193.59	8,163	12,240
193.08	7,861	8,154	193.60	8,169	12,322
193.09	7,867	8,233	193.61	8,175	12,403
193.10	7,873	8,311	193.62	8,180	12,485
193.11	7,879	8,390	193.63	8,186	12,567
193.12	7,885	8,469	193.64	8,192	12,649
193.13	7,891	8,548	193.65	8,198	12,731
193.14	7,897	8,627	193.66	8,204	12,813
193.15	7,903	8,706	193.67	8,210	12,895
193.16	7,909	8,785	193.68	8,216	12,977
193.17	7,914	8,864	193.69	8,222	13,059
193.18	7,920	8,943	193.70	8,228	13,142
193.19	7,926	9,022	193.71	8,234	13,224
193.20	7,932	9,102	193.72	8,240	13,306
193.21	7,938	9,181	193.73	8,245	13,389
193.22	7,944	9,260	193.74	8,251	13,471
193.23	7,950	9,340	193.75	8,257	13,554
193.24	7,956	9,419	193.76	8,263	13,636
193.25	7,962	9,499	193.77	8,269	13,719
193.26	7,968	9,579	193.78	8,275	13,802
193.27	7,974	9,658	193.79	8,281	13,884
193.28	7,979	9,738	193.80	8,287	13,967
193.29	7,985	9,818	193.81	8,293	14,050
193.30	7,991	9,898	193.82	8,299	14,133
193.31	7,997	9,978	193.83	8,305	14,216
193.32	8,003	10,058	193.84	8,310	14,299
193.33	8,009	10,138	193.85	8,316	14,382
193.34	8,015	10,218	193.86	8,322	14,466
193.35	8,021	10,298	193.87	8,328	14,549
193.36	8,027	10,378	193.88	8,334	14,632
193.37	8,033	10,459	193.89	8,340	14,716
193.38	8,039	10,539	193.90	8,346	14,799
193.39	8,044	10,619	193.91	8,352	14,882
193.40	8,050	10,700	193.92	8,358	14,966
193.41	8,056	10,780	193.93	8,364	15,050
193.42	8,062	10,861	193.94	8,370	15,133
193.43	8,068	10,942	193.95	8,375	15,217
193.44	8,074	11,022	193.96	8,381	15,301
193.45	8,080	11,103	193.97	8,387	15,385
193.46	8,086	11,184	193.98	8,393	15,469
193.47	8,092	11,265	193.99	8,399	15,552
193.48	8,098	11,346	194.00	8,405	15,637
193.49	8,104	11,427	194.01	8,411	15,721
193.50	8,110	11,508	194.02	8,417	15,805
193.51	8,115	11,589	194.03	8,423	15,889
193.52	8,121	11,670	194.04	8,429	15,973
193.53	8,127	11,751	194.05	8,435	16,058
193.54	8,133	11,833	194.06	8,441	16,142
193.55	8,139	11,914	194.07	8,447	16,226

Stage-Area-Storage for Pond B-14: Basin #14 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
194.08	8,454	16,311	194.60	8,769	20,789
194.09	8,460	16,395	194.61	8,775	20,876
194.10	8,466	16,480	194.62	8,781	20,964
194.11	8,472	16,565	194.63	8,787	21,052
194.12	8,478	16,649	194.64	8,793	21,140
194.13	8,484	16,734	194.65	8,800	21,228
194.14	8,490	16,819	194.66	8,806	21,316
194.15	8,496	16,904	194.67	8,812	21,404
194.16	8,502	16,989	194.68	8,818	21,492
194.17	8,508	17,074	194.69	8,824	21,580
194.18	8,514	17,159	194.70	8,830	21,669
194.19	8,520	17,244	194.71	8,836	21,757
194.20	8,526	17,330	194.72	8,842	21,845
194.21	8,532	17,415	194.73	8,848	21,934
194.22	8,539	17,500	194.74	8,854	22,022
194.23	8,545	17,586	194.75	8,860	22,111
194.24	8,551	17,671	194.76	8,866	22,200
194.25	8,557	17,757	194.77	8,872	22,288
194.26	8,563	17,842	194.78	8,878	22,377
194.27	8,569	17,928	194.79	8,885	22,466
194.28	8,575	18,014	194.80	8,891	22,555
194.29	8,581	18,099	194.81	8,897	22,644
194.30	8,587	18,185	194.82	8,903	22,733
194.31	8,593	18,271	194.83	8,909	22,822
194.32	8,599	18,357	194.84	8,915	22,911
194.33	8,605	18,443	194.85	8,921	23,000
194.34	8,611	18,529	194.86	8,927	23,089
194.35	8,617	18,615	194.87	8,933	23,179
194.36	8,624	18,702	194.88	8,939	23,268
194.37	8,630	18,788	194.89	8,945	23,357
194.38	8,636	18,874	194.90	8,951	23,447
194.39	8,642	18,961	194.91	8,957	23,536
194.40	8,648	19,047	194.92	8,963	23,626
194.41	8,654	19,134	194.93	8,970	23,716
194.42	8,660	19,220	194.94	8,976	23,805
194.43	8,666	19,307	194.95	8,982	23,895
194.44	8,672	19,393	194.96	8,988	23,985
194.45	8,678	19,480	194.97	8,994	24,075
194.46	8,684	19,567	194.98	9,000	24,165
194.47	8,690	19,654	194.99	9,006	24,255
194.48	8,696	19,741	195.00	9,012	24,345
194.49	8,702	19,828			
194.50	8,709	19,915			
194.51	8,715	20,002			
194.52	8,721	20,089			
194.53	8,727	20,176			
194.54	8,733	20,264			
194.55	8,739	20,351			
194.56	8,745	20,438			
194.57	8,751	20,526			
194.58	8,757	20,613			
194.59	8,763	20,701			

Summary for Pond B-15: Basin #15

Inflow Area = 2.365 ac, 58.73% Impervious, Inflow Depth = 7.16" for Current 100 yr event
 Inflow = 16.74 cfs @ 12.17 hrs, Volume= 1.410 af
 Outflow = 13.92 cfs @ 12.24 hrs, Volume= 1.283 af, Atten= 17%, Lag= 4.2 min
 Primary = 13.92 cfs @ 12.24 hrs, Volume= 1.283 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 199.58' @ 12.24 hrs Surf.Area= 5,740 sf Storage= 16,784 cf

Plug-Flow detention time= 139.2 min calculated for 1.281 af (91% of inflow)
 Center-of-Mass det. time= 92.0 min (860.4 - 768.4)

Volume	Invert	Avail.Storage	Storage Description
#1	196.00'	19,269 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
196.00	3,706	0	0
197.00	4,236	3,971	3,971
198.00	4,795	4,516	8,487
199.00	5,384	5,090	13,576
200.00	6,002	5,693	19,269

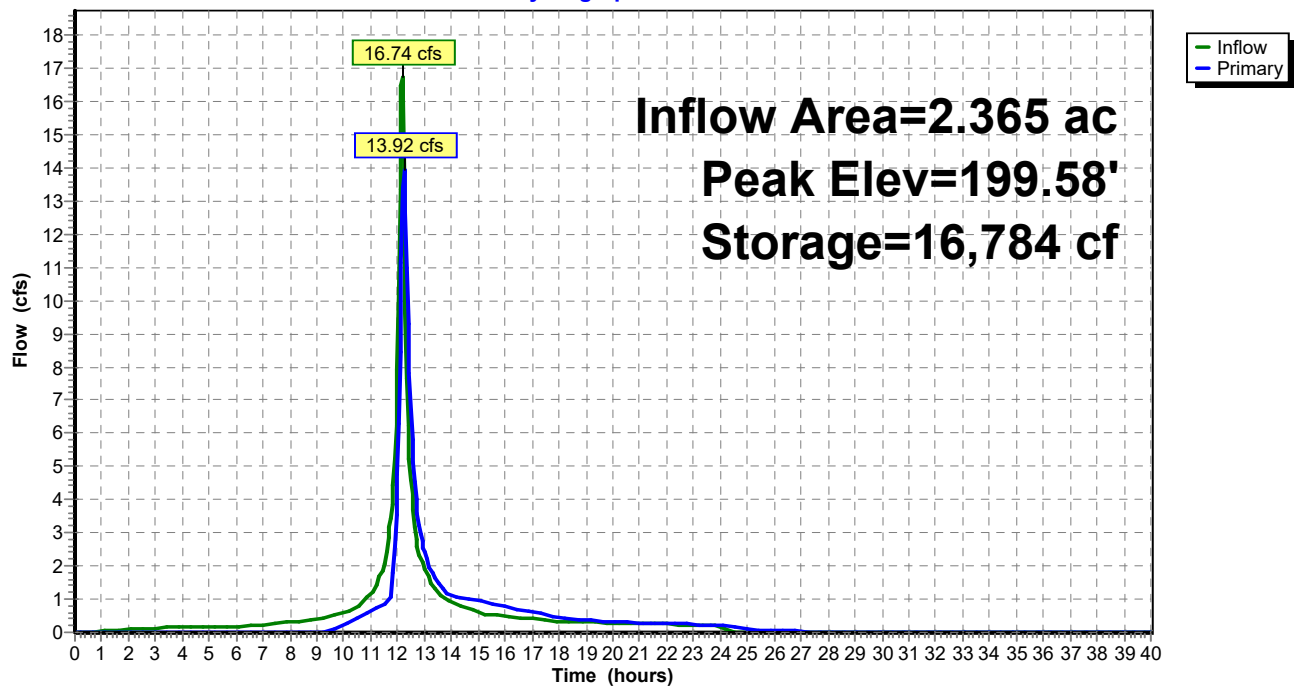
Device	Routing	Invert	Outlet Devices
#1	Primary	194.65'	18.0" Round Culvert L= 203.0' Ke= 0.500 Inlet / Outlet Invert= 194.65' / 192.00' S= 0.0131 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	197.35'	6.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	198.58'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	199.99'	50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=13.79 cfs @ 12.24 hrs HW=199.57' (Free Discharge)

1=Culvert (Passes 13.79 cfs of 15.30 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 1.55 cfs @ 6.72 fps)
 3=Sharp-Crested Rectangular Weir (Weir Controls 12.24 cfs @ 3.25 fps)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-15: Basin #15

Hydrograph



Stage-Discharge for Pond B-15: Basin #15

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
196.00	0.00	196.52	0.00	197.04	0.00	197.56	0.13
196.01	0.00	196.53	0.00	197.05	0.00	197.57	0.14
196.02	0.00	196.54	0.00	197.06	0.00	197.58	0.15
196.03	0.00	196.55	0.00	197.07	0.00	197.59	0.16
196.04	0.00	196.56	0.00	197.08	0.00	197.60	0.18
196.05	0.00	196.57	0.00	197.09	0.00	197.61	0.19
196.06	0.00	196.58	0.00	197.10	0.00	197.62	0.20
196.07	0.00	196.59	0.00	197.11	0.00	197.63	0.22
196.08	0.00	196.60	0.00	197.12	0.00	197.64	0.23
196.09	0.00	196.61	0.00	197.13	0.00	197.65	0.24
196.10	0.00	196.62	0.00	197.14	0.00	197.66	0.26
196.11	0.00	196.63	0.00	197.15	0.00	197.67	0.27
196.12	0.00	196.64	0.00	197.16	0.00	197.68	0.29
196.13	0.00	196.65	0.00	197.17	0.00	197.69	0.30
196.14	0.00	196.66	0.00	197.18	0.00	197.70	0.32
196.15	0.00	196.67	0.00	197.19	0.00	197.71	0.33
196.16	0.00	196.68	0.00	197.20	0.00	197.72	0.35
196.17	0.00	196.69	0.00	197.21	0.00	197.73	0.36
196.18	0.00	196.70	0.00	197.22	0.00	197.74	0.38
196.19	0.00	196.71	0.00	197.23	0.00	197.75	0.39
196.20	0.00	196.72	0.00	197.24	0.00	197.76	0.41
196.21	0.00	196.73	0.00	197.25	0.00	197.77	0.42
196.22	0.00	196.74	0.00	197.26	0.00	197.78	0.44
196.23	0.00	196.75	0.00	197.27	0.00	197.79	0.45
196.24	0.00	196.76	0.00	197.28	0.00	197.80	0.47
196.25	0.00	196.77	0.00	197.29	0.00	197.81	0.48
196.26	0.00	196.78	0.00	197.30	0.00	197.82	0.50
196.27	0.00	196.79	0.00	197.31	0.00	197.83	0.51
196.28	0.00	196.80	0.00	197.32	0.00	197.84	0.52
196.29	0.00	196.81	0.00	197.33	0.00	197.85	0.54
196.30	0.00	196.82	0.00	197.34	0.00	197.86	0.55
196.31	0.00	196.83	0.00	197.35	0.00	197.87	0.56
196.32	0.00	196.84	0.00	197.36	0.00	197.88	0.57
196.33	0.00	196.85	0.00	197.37	0.00	197.89	0.58
196.34	0.00	196.86	0.00	197.38	0.00	197.90	0.59
196.35	0.00	196.87	0.00	197.39	0.01	197.91	0.60
196.36	0.00	196.88	0.00	197.40	0.01	197.92	0.61
196.37	0.00	196.89	0.00	197.41	0.01	197.93	0.62
196.38	0.00	196.90	0.00	197.42	0.02	197.94	0.63
196.39	0.00	196.91	0.00	197.43	0.02	197.95	0.64
196.40	0.00	196.92	0.00	197.44	0.03	197.96	0.65
196.41	0.00	196.93	0.00	197.45	0.03	197.97	0.66
196.42	0.00	196.94	0.00	197.46	0.04	197.98	0.66
196.43	0.00	196.95	0.00	197.47	0.04	197.99	0.67
196.44	0.00	196.96	0.00	197.48	0.05	198.00	0.68
196.45	0.00	196.97	0.00	197.49	0.06	198.01	0.69
196.46	0.00	196.98	0.00	197.50	0.07	198.02	0.70
196.47	0.00	196.99	0.00	197.51	0.08	198.03	0.71
196.48	0.00	197.00	0.00	197.52	0.09	198.04	0.72
196.49	0.00	197.01	0.00	197.53	0.10	198.05	0.73
196.50	0.00	197.02	0.00	197.54	0.11	198.06	0.74
196.51	0.00	197.03	0.00	197.55	0.12	198.07	0.74

Stage-Discharge for Pond B-15: Basin #15 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
198.08	0.75	198.60	1.13	199.12	6.41	199.64	15.09
198.09	0.76	198.61	1.17	199.13	6.55	199.65	15.28
198.10	0.77	198.62	1.21	199.14	6.70	199.66	15.42
198.11	0.78	198.63	1.26	199.15	6.84	199.67	15.43
198.12	0.78	198.64	1.31	199.16	6.99	199.68	15.44
198.13	0.79	198.65	1.37	199.17	7.13	199.69	15.45
198.14	0.80	198.66	1.43	199.18	7.28	199.70	15.47
198.15	0.81	198.67	1.49	199.19	7.43	199.71	15.48
198.16	0.81	198.68	1.55	199.20	7.58	199.72	15.49
198.17	0.82	198.69	1.62	199.21	7.73	199.73	15.50
198.18	0.83	198.70	1.69	199.22	7.89	199.74	15.52
198.19	0.84	198.71	1.77	199.23	8.04	199.75	15.53
198.20	0.84	198.72	1.84	199.24	8.19	199.76	15.54
198.21	0.85	198.73	1.92	199.25	8.35	199.77	15.55
198.22	0.86	198.74	2.00	199.26	8.51	199.78	15.57
198.23	0.87	198.75	2.09	199.27	8.66	199.79	15.58
198.24	0.87	198.76	2.17	199.28	8.82	199.80	15.59
198.25	0.88	198.77	2.26	199.29	8.98	199.81	15.60
198.26	0.89	198.78	2.35	199.30	9.14	199.82	15.62
198.27	0.89	198.79	2.45	199.31	9.30	199.83	15.63
198.28	0.90	198.80	2.54	199.32	9.46	199.84	15.64
198.29	0.91	198.81	2.64	199.33	9.63	199.85	15.65
198.30	0.91	198.82	2.73	199.34	9.79	199.86	15.66
198.31	0.92	198.83	2.83	199.35	9.96	199.87	15.68
198.32	0.93	198.84	2.94	199.36	10.12	199.88	15.69
198.33	0.93	198.85	3.04	199.37	10.29	199.89	15.70
198.34	0.94	198.86	3.15	199.38	10.46	199.90	15.71
198.35	0.95	198.87	3.25	199.39	10.62	199.91	15.73
198.36	0.95	198.88	3.36	199.40	10.79	199.92	15.74
198.37	0.96	198.89	3.47	199.41	10.96	199.93	15.75
198.38	0.97	198.90	3.58	199.42	11.14	199.94	15.76
198.39	0.97	198.91	3.70	199.43	11.31	199.95	15.78
198.40	0.98	198.92	3.81	199.44	11.48	199.96	15.79
198.41	0.99	198.93	3.93	199.45	11.65	199.97	15.80
198.42	0.99	198.94	4.05	199.46	11.83	199.98	15.81
198.43	1.00	198.95	4.17	199.47	12.00	199.99	15.82
198.44	1.00	198.96	4.29	199.48	12.18	200.00	15.95
198.45	1.01	198.97	4.41	199.49	12.35		
198.46	1.02	198.98	4.54	199.50	12.53		
198.47	1.02	198.99	4.66	199.51	12.71		
198.48	1.03	199.00	4.79	199.52	12.89		
198.49	1.03	199.01	4.92	199.53	13.07		
198.50	1.04	199.02	5.05	199.54	13.25		
198.51	1.05	199.03	5.18	199.55	13.43		
198.52	1.05	199.04	5.31	199.56	13.61		
198.53	1.06	199.05	5.44	199.57	13.80		
198.54	1.06	199.06	5.58	199.58	13.98		
198.55	1.07	199.07	5.71	199.59	14.16		
198.56	1.08	199.08	5.85	199.60	14.35		
198.57	1.08	199.09	5.99	199.61	14.53		
198.58	1.09	199.10	6.13	199.62	14.72		
198.59	1.11	199.11	6.27	199.63	14.91		

Stage-Area-Storage for Pond B-15: Basin #15

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
196.00	3,706	0	196.52	3,982	1,999
196.01	3,711	37	196.53	3,987	2,039
196.02	3,717	74	196.54	3,992	2,079
196.03	3,722	111	196.55	3,998	2,118
196.04	3,727	149	196.56	4,003	2,158
196.05	3,733	186	196.57	4,008	2,199
196.06	3,738	223	196.58	4,013	2,239
196.07	3,743	261	196.59	4,019	2,279
196.08	3,748	298	196.60	4,024	2,319
196.09	3,754	336	196.61	4,029	2,359
196.10	3,759	373	196.62	4,035	2,400
196.11	3,764	411	196.63	4,040	2,440
196.12	3,770	449	196.64	4,045	2,480
196.13	3,775	486	196.65	4,051	2,521
196.14	3,780	524	196.66	4,056	2,561
196.15	3,786	562	196.67	4,061	2,602
196.16	3,791	600	196.68	4,066	2,643
196.17	3,796	638	196.69	4,072	2,683
196.18	3,801	676	196.70	4,077	2,724
196.19	3,807	714	196.71	4,082	2,765
196.20	3,812	752	196.72	4,088	2,806
196.21	3,817	790	196.73	4,093	2,847
196.22	3,823	828	196.74	4,098	2,888
196.23	3,828	866	196.75	4,104	2,929
196.24	3,833	905	196.76	4,109	2,970
196.25	3,839	943	196.77	4,114	3,011
196.26	3,844	981	196.78	4,119	3,052
196.27	3,849	1,020	196.79	4,125	3,093
196.28	3,854	1,058	196.80	4,130	3,134
196.29	3,860	1,097	196.81	4,135	3,176
196.30	3,865	1,136	196.82	4,141	3,217
196.31	3,870	1,174	196.83	4,146	3,259
196.32	3,876	1,213	196.84	4,151	3,300
196.33	3,881	1,252	196.85	4,156	3,342
196.34	3,886	1,291	196.86	4,162	3,383
196.35	3,891	1,330	196.87	4,167	3,425
196.36	3,897	1,369	196.88	4,172	3,466
196.37	3,902	1,407	196.89	4,178	3,508
196.38	3,907	1,447	196.90	4,183	3,550
196.39	3,913	1,486	196.91	4,188	3,592
196.40	3,918	1,525	196.92	4,194	3,634
196.41	3,923	1,564	196.93	4,199	3,676
196.42	3,929	1,603	196.94	4,204	3,718
196.43	3,934	1,643	196.95	4,209	3,760
196.44	3,939	1,682	196.96	4,215	3,802
196.45	3,944	1,721	196.97	4,220	3,844
196.46	3,950	1,761	196.98	4,225	3,886
196.47	3,955	1,800	196.99	4,231	3,929
196.48	3,960	1,840	197.00	4,236	3,971
196.49	3,966	1,880	197.01	4,242	4,013
196.50	3,971	1,919	197.02	4,247	4,056
196.51	3,976	1,959	197.03	4,253	4,098

Stage-Area-Storage for Pond B-15: Basin #15 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
197.04	4,258	4,141	197.56	4,549	6,431
197.05	4,264	4,183	197.57	4,555	6,476
197.06	4,270	4,226	197.58	4,560	6,522
197.07	4,275	4,269	197.59	4,566	6,568
197.08	4,281	4,312	197.60	4,571	6,613
197.09	4,286	4,355	197.61	4,577	6,659
197.10	4,292	4,397	197.62	4,583	6,705
197.11	4,297	4,440	197.63	4,588	6,751
197.12	4,303	4,483	197.64	4,594	6,797
197.13	4,309	4,526	197.65	4,599	6,842
197.14	4,314	4,570	197.66	4,605	6,889
197.15	4,320	4,613	197.67	4,611	6,935
197.16	4,325	4,656	197.68	4,616	6,981
197.17	4,331	4,699	197.69	4,622	7,027
197.18	4,337	4,743	197.70	4,627	7,073
197.19	4,342	4,786	197.71	4,633	7,119
197.20	4,348	4,829	197.72	4,638	7,166
197.21	4,353	4,873	197.73	4,644	7,212
197.22	4,359	4,916	197.74	4,650	7,259
197.23	4,365	4,960	197.75	4,655	7,305
197.24	4,370	5,004	197.76	4,661	7,352
197.25	4,376	5,047	197.77	4,666	7,398
197.26	4,381	5,091	197.78	4,672	7,445
197.27	4,387	5,135	197.79	4,678	7,492
197.28	4,393	5,179	197.80	4,683	7,539
197.29	4,398	5,223	197.81	4,689	7,586
197.30	4,404	5,267	197.82	4,694	7,632
197.31	4,409	5,311	197.83	4,700	7,679
197.32	4,415	5,355	197.84	4,706	7,726
197.33	4,420	5,399	197.85	4,711	7,774
197.34	4,426	5,444	197.86	4,717	7,821
197.35	4,432	5,488	197.87	4,722	7,868
197.36	4,437	5,532	197.88	4,728	7,915
197.37	4,443	5,577	197.89	4,734	7,962
197.38	4,448	5,621	197.90	4,739	8,010
197.39	4,454	5,666	197.91	4,745	8,057
197.40	4,460	5,710	197.92	4,750	8,105
197.41	4,465	5,755	197.93	4,756	8,152
197.42	4,471	5,799	197.94	4,761	8,200
197.43	4,476	5,844	197.95	4,767	8,247
197.44	4,482	5,889	197.96	4,773	8,295
197.45	4,488	5,934	197.97	4,778	8,343
197.46	4,493	5,979	197.98	4,784	8,391
197.47	4,499	6,024	197.99	4,789	8,439
197.48	4,504	6,069	198.00	4,795	8,487
197.49	4,510	6,114	198.01	4,801	8,534
197.50	4,516	6,159	198.02	4,807	8,583
197.51	4,521	6,204	198.03	4,813	8,631
197.52	4,527	6,249	198.04	4,819	8,679
197.53	4,532	6,295	198.05	4,824	8,727
197.54	4,538	6,340	198.06	4,830	8,775
197.55	4,543	6,385	198.07	4,836	8,824

Stage-Area-Storage for Pond B-15: Basin #15 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
198.08	4,842	8,872	198.60	5,148	11,470
198.09	4,848	8,920	198.61	5,154	11,521
198.10	4,854	8,969	198.62	5,160	11,573
198.11	4,860	9,018	198.63	5,166	11,624
198.12	4,866	9,066	198.64	5,172	11,676
198.13	4,872	9,115	198.65	5,178	11,728
198.14	4,877	9,164	198.66	5,184	11,779
198.15	4,883	9,212	198.67	5,190	11,831
198.16	4,889	9,261	198.68	5,196	11,883
198.17	4,895	9,310	198.69	5,201	11,935
198.18	4,901	9,359	198.70	5,207	11,987
198.19	4,907	9,408	198.71	5,213	12,039
198.20	4,913	9,457	198.72	5,219	12,092
198.21	4,919	9,506	198.73	5,225	12,144
198.22	4,925	9,556	198.74	5,231	12,196
198.23	4,930	9,605	198.75	5,237	12,248
198.24	4,936	9,654	198.76	5,243	12,301
198.25	4,942	9,704	198.77	5,249	12,353
198.26	4,948	9,753	198.78	5,254	12,406
198.27	4,954	9,803	198.79	5,260	12,458
198.28	4,960	9,852	198.80	5,266	12,511
198.29	4,966	9,902	198.81	5,272	12,564
198.30	4,972	9,952	198.82	5,278	12,616
198.31	4,978	10,001	198.83	5,284	12,669
198.32	4,983	10,051	198.84	5,290	12,722
198.33	4,989	10,101	198.85	5,296	12,775
198.34	4,995	10,151	198.86	5,302	12,828
198.35	5,001	10,201	198.87	5,307	12,881
198.36	5,007	10,251	198.88	5,313	12,934
198.37	5,013	10,301	198.89	5,319	12,987
198.38	5,019	10,351	198.90	5,325	13,041
198.39	5,025	10,401	198.91	5,331	13,094
198.40	5,031	10,452	198.92	5,337	13,147
198.41	5,036	10,502	198.93	5,343	13,201
198.42	5,042	10,552	198.94	5,349	13,254
198.43	5,048	10,603	198.95	5,355	13,308
198.44	5,054	10,653	198.96	5,360	13,361
198.45	5,060	10,704	198.97	5,366	13,415
198.46	5,066	10,755	198.98	5,372	13,468
198.47	5,072	10,805	198.99	5,378	13,522
198.48	5,078	10,856	199.00	5,384	13,576
198.49	5,084	10,907	199.01	5,390	13,630
198.50	5,090	10,958	199.02	5,396	13,684
198.51	5,095	11,009	199.03	5,403	13,738
198.52	5,101	11,060	199.04	5,409	13,792
198.53	5,107	11,111	199.05	5,415	13,846
198.54	5,113	11,162	199.06	5,421	13,900
198.55	5,119	11,213	199.07	5,427	13,954
198.56	5,125	11,264	199.08	5,433	14,009
198.57	5,131	11,315	199.09	5,440	14,063
198.58	5,137	11,367	199.10	5,446	14,117
198.59	5,143	11,418	199.11	5,452	14,172

Stage-Area-Storage for Pond B-15: Basin #15 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
199.12	5,458	14,227	199.64	5,780	17,148
199.13	5,464	14,281	199.65	5,786	17,206
199.14	5,471	14,336	199.66	5,792	17,264
199.15	5,477	14,391	199.67	5,798	17,322
199.16	5,483	14,445	199.68	5,804	17,380
199.17	5,489	14,500	199.69	5,810	17,438
199.18	5,495	14,555	199.70	5,817	17,496
199.19	5,501	14,610	199.71	5,823	17,554
199.20	5,508	14,665	199.72	5,829	17,613
199.21	5,514	14,720	199.73	5,835	17,671
199.22	5,520	14,775	199.74	5,841	17,729
199.23	5,526	14,831	199.75	5,848	17,788
199.24	5,532	14,886	199.76	5,854	17,846
199.25	5,539	14,941	199.77	5,860	17,905
199.26	5,545	14,997	199.78	5,866	17,964
199.27	5,551	15,052	199.79	5,872	18,022
199.28	5,557	15,108	199.80	5,878	18,081
199.29	5,563	15,163	199.81	5,885	18,140
199.30	5,569	15,219	199.82	5,891	18,199
199.31	5,576	15,275	199.83	5,897	18,258
199.32	5,582	15,331	199.84	5,903	18,317
199.33	5,588	15,386	199.85	5,909	18,376
199.34	5,594	15,442	199.86	5,915	18,435
199.35	5,600	15,498	199.87	5,922	18,494
199.36	5,606	15,554	199.88	5,928	18,553
199.37	5,613	15,610	199.89	5,934	18,613
199.38	5,619	15,667	199.90	5,940	18,672
199.39	5,625	15,723	199.91	5,946	18,731
199.40	5,631	15,779	199.92	5,953	18,791
199.41	5,637	15,835	199.93	5,959	18,850
199.42	5,644	15,892	199.94	5,965	18,910
199.43	5,650	15,948	199.95	5,971	18,970
199.44	5,656	16,005	199.96	5,977	19,029
199.45	5,662	16,061	199.97	5,983	19,089
199.46	5,668	16,118	199.98	5,990	19,149
199.47	5,674	16,175	199.99	5,996	19,209
199.48	5,681	16,232	200.00	6,002	19,269
199.49	5,687	16,288			
199.50	5,693	16,345			
199.51	5,699	16,402			
199.52	5,705	16,459			
199.53	5,712	16,516			
199.54	5,718	16,573			
199.55	5,724	16,631			
199.56	5,730	16,688			
199.57	5,736	16,745			
199.58	5,742	16,803			
199.59	5,749	16,860			
199.60	5,755	16,918			
199.61	5,761	16,975			
199.62	5,767	17,033			
199.63	5,773	17,091			

Summary for Pond B-16A: Basin #16A

Inflow Area = 1.876 ac, 45.47% Impervious, Inflow Depth = 6.77" for Current 100 yr event
 Inflow = 12.81 cfs @ 12.17 hrs, Volume= 1.059 af
 Outflow = 10.85 cfs @ 12.24 hrs, Volume= 0.979 af, Atten= 15%, Lag= 3.9 min
 Primary = 10.85 cfs @ 12.24 hrs, Volume= 0.979 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 180.60' @ 12.24 hrs Surf.Area= 4,538 sf Storage= 9,166 cf

Plug-Flow detention time= 91.2 min calculated for 0.978 af (92% of inflow)
 Center-of-Mass det. time= 50.3 min (828.1 - 777.8)

Volume	Invert	Avail.Storage	Storage Description
#1	178.00'	16,318 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
178.00	2,543	0	0
179.00	3,287	2,915	2,915
180.00	4,059	3,673	6,588
181.00	4,858	4,459	11,047
182.00	5,685	5,272	16,318

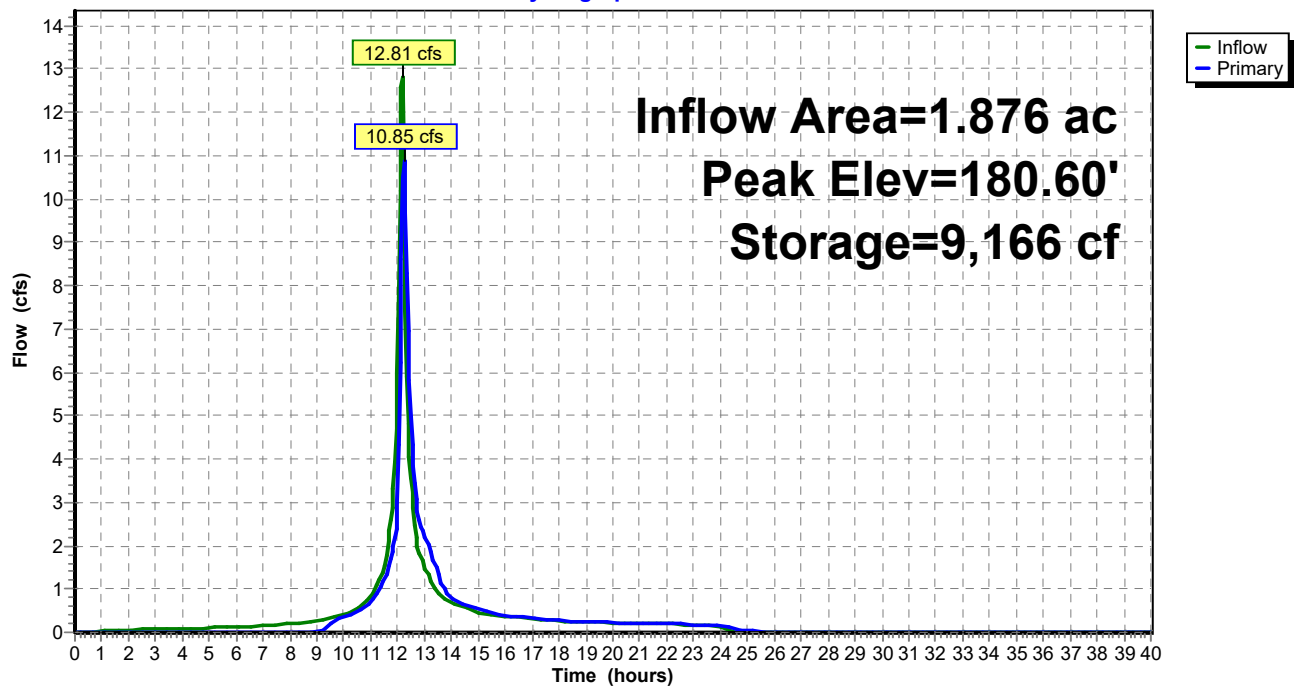
Device	Routing	Invert	Outlet Devices
#1	Primary	176.65'	18.0" Round Culvert L= 53.0' Ke= 0.500 Inlet / Outlet Invert= 176.65' / 172.00' S= 0.0877 ' / Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	179.16'	24.0" W x 4.0" H Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	179.91'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	181.95'	50.0' long + 3.0 ' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=10.72 cfs @ 12.24 hrs HW=180.59' (Free Discharge)

1=Culvert (Passes 10.72 cfs of 15.20 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 3.61 cfs @ 5.41 fps)
 3=Sharp-Crested Rectangular Weir (Weir Controls 7.11 cfs @ 2.70 fps)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-16A: Basin #16A

Hydrograph



Stage-Discharge for Pond B-16A: Basin #16A

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
178.00	0.00	178.52	0.00	179.04	0.00	179.56	1.51
178.01	0.00	178.53	0.00	179.05	0.00	179.57	1.55
178.02	0.00	178.54	0.00	179.06	0.00	179.58	1.58
178.03	0.00	178.55	0.00	179.07	0.00	179.59	1.62
178.04	0.00	178.56	0.00	179.08	0.00	179.60	1.65
178.05	0.00	178.57	0.00	179.09	0.00	179.61	1.68
178.06	0.00	178.58	0.00	179.10	0.00	179.62	1.71
178.07	0.00	178.59	0.00	179.11	0.00	179.63	1.74
178.08	0.00	178.60	0.00	179.12	0.00	179.64	1.77
178.09	0.00	178.61	0.00	179.13	0.00	179.65	1.80
178.10	0.00	178.62	0.00	179.14	0.00	179.66	1.83
178.11	0.00	178.63	0.00	179.15	0.00	179.67	1.86
178.12	0.00	178.64	0.00	179.16	0.00	179.68	1.89
178.13	0.00	178.65	0.00	179.17	0.01	179.69	1.92
178.14	0.00	178.66	0.00	179.18	0.02	179.70	1.94
178.15	0.00	178.67	0.00	179.19	0.03	179.71	1.97
178.16	0.00	178.68	0.00	179.20	0.05	179.72	2.00
178.17	0.00	178.69	0.00	179.21	0.07	179.73	2.02
178.18	0.00	178.70	0.00	179.22	0.09	179.74	2.05
178.19	0.00	178.71	0.00	179.23	0.12	179.75	2.07
178.20	0.00	178.72	0.00	179.24	0.15	179.76	2.10
178.21	0.00	178.73	0.00	179.25	0.17	179.77	2.12
178.22	0.00	178.74	0.00	179.26	0.20	179.78	2.15
178.23	0.00	178.75	0.00	179.27	0.23	179.79	2.17
178.24	0.00	178.76	0.00	179.28	0.27	179.80	2.20
178.25	0.00	178.77	0.00	179.29	0.30	179.81	2.22
178.26	0.00	178.78	0.00	179.30	0.34	179.82	2.24
178.27	0.00	178.79	0.00	179.31	0.37	179.83	2.27
178.28	0.00	178.80	0.00	179.32	0.41	179.84	2.29
178.29	0.00	178.81	0.00	179.33	0.45	179.85	2.31
178.30	0.00	178.82	0.00	179.34	0.49	179.86	2.33
178.31	0.00	178.83	0.00	179.35	0.53	179.87	2.36
178.32	0.00	178.84	0.00	179.36	0.57	179.88	2.38
178.33	0.00	178.85	0.00	179.37	0.62	179.89	2.40
178.34	0.00	178.86	0.00	179.38	0.66	179.90	2.42
178.35	0.00	178.87	0.00	179.39	0.71	179.91	2.44
178.36	0.00	178.88	0.00	179.40	0.75	179.92	2.48
178.37	0.00	178.89	0.00	179.41	0.80	179.93	2.52
178.38	0.00	178.90	0.00	179.42	0.85	179.94	2.57
178.39	0.00	178.91	0.00	179.43	0.90	179.95	2.63
178.40	0.00	178.92	0.00	179.44	0.95	179.96	2.69
178.41	0.00	178.93	0.00	179.45	1.00	179.97	2.76
178.42	0.00	178.94	0.00	179.46	1.05	179.98	2.83
178.43	0.00	178.95	0.00	179.47	1.11	179.99	2.90
178.44	0.00	178.96	0.00	179.48	1.16	180.00	2.98
178.45	0.00	178.97	0.00	179.49	1.22	180.01	3.06
178.46	0.00	178.98	0.00	179.50	1.27	180.02	3.14
178.47	0.00	178.99	0.00	179.51	1.32	180.03	3.23
178.48	0.00	179.00	0.00	179.52	1.36	180.04	3.31
178.49	0.00	179.01	0.00	179.53	1.40	180.05	3.40
178.50	0.00	179.02	0.00	179.54	1.44	180.06	3.50
178.51	0.00	179.03	0.00	179.55	1.48	180.07	3.59

Stage-Discharge for Pond B-16A: Basin #16A (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
180.08	3.69	180.60	10.86	181.12	16.41	181.64	17.52
180.09	3.79	180.61	11.03	181.13	16.43	181.65	17.54
180.10	3.89	180.62	11.20	181.14	16.46	181.66	17.56
180.11	3.99	180.63	11.37	181.15	16.48	181.67	17.58
180.12	4.10	180.64	11.54	181.16	16.50	181.68	17.60
180.13	4.21	180.65	11.71	181.17	16.52	181.69	17.62
180.14	4.32	180.66	11.88	181.18	16.54	181.70	17.64
180.15	4.43	180.67	12.05	181.19	16.56	181.71	17.66
180.16	4.54	180.68	12.23	181.20	16.59	181.72	17.69
180.17	4.65	180.69	12.40	181.21	16.61	181.73	17.71
180.18	4.77	180.70	12.58	181.22	16.63	181.74	17.73
180.19	4.89	180.71	12.76	181.23	16.65	181.75	17.75
180.20	5.01	180.72	12.94	181.24	16.67	181.76	17.77
180.21	5.13	180.73	13.11	181.25	16.70	181.77	17.79
180.22	5.25	180.74	13.29	181.26	16.72	181.78	17.81
180.23	5.38	180.75	13.47	181.27	16.74	181.79	17.83
180.24	5.50	180.76	13.66	181.28	16.76	181.80	17.85
180.25	5.63	180.77	13.84	181.29	16.78	181.81	17.87
180.26	5.76	180.78	14.02	181.30	16.80	181.82	17.89
180.27	5.89	180.79	14.20	181.31	16.82	181.83	17.91
180.28	6.02	180.80	14.39	181.32	16.85	181.84	17.93
180.29	6.15	180.81	14.57	181.33	16.87	181.85	17.95
180.30	6.29	180.82	14.76	181.34	16.89	181.86	17.97
180.31	6.42	180.83	14.95	181.35	16.91	181.87	17.99
180.32	6.56	180.84	15.13	181.36	16.93	181.88	18.01
180.33	6.70	180.85	15.32	181.37	16.95	181.89	18.03
180.34	6.84	180.86	15.51	181.38	16.97	181.90	18.05
180.35	6.98	180.87	15.70	181.39	17.00	181.91	18.07
180.36	7.12	180.88	15.87	181.40	17.02	181.92	18.09
180.37	7.26	180.89	15.90	181.41	17.04	181.93	18.11
180.38	7.41	180.90	15.92	181.42	17.06	181.94	18.13
180.39	7.55	180.91	15.94	181.43	17.08	181.95	18.15
180.40	7.70	180.92	15.96	181.44	17.10	181.96	18.29
180.41	7.85	180.93	15.99	181.45	17.12	181.97	18.52
180.42	8.00	180.94	16.01	181.46	17.14	181.98	18.82
180.43	8.15	180.95	16.03	181.47	17.17	181.99	19.17
180.44	8.30	180.96	16.05	181.48	17.19	182.00	19.56
180.45	8.45	180.97	16.08	181.49	17.21		
180.46	8.60	180.98	16.10	181.50	17.23		
180.47	8.76	180.99	16.12	181.51	17.25		
180.48	8.91	181.00	16.14	181.52	17.27		
180.49	9.07	181.01	16.17	181.53	17.29		
180.50	9.23	181.02	16.19	181.54	17.31		
180.51	9.39	181.03	16.21	181.55	17.33		
180.52	9.55	181.04	16.23	181.56	17.35		
180.53	9.71	181.05	16.26	181.57	17.38		
180.54	9.87	181.06	16.28	181.58	17.40		
180.55	10.03	181.07	16.30	181.59	17.42		
180.56	10.19	181.08	16.32	181.60	17.44		
180.57	10.36	181.09	16.34	181.61	17.46		
180.58	10.52	181.10	16.37	181.62	17.48		
180.59	10.69	181.11	16.39	181.63	17.50		

Stage-Area-Storage for Pond B-16A: Basin #16A

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
178.00	2,543	0	178.52	2,930	1,423
178.01	2,550	25	178.53	2,937	1,452
178.02	2,558	51	178.54	2,945	1,482
178.03	2,565	77	178.55	2,952	1,511
178.04	2,573	102	178.56	2,960	1,541
178.05	2,580	128	178.57	2,967	1,570
178.06	2,588	154	178.58	2,975	1,600
178.07	2,595	180	178.59	2,982	1,630
178.08	2,603	206	178.60	2,989	1,660
178.09	2,610	232	178.61	2,997	1,690
178.10	2,617	258	178.62	3,004	1,720
178.11	2,625	284	178.63	3,012	1,750
178.12	2,632	311	178.64	3,019	1,780
178.13	2,640	337	178.65	3,027	1,810
178.14	2,647	363	178.66	3,034	1,840
178.15	2,655	390	178.67	3,041	1,871
178.16	2,662	416	178.68	3,049	1,901
178.17	2,669	443	178.69	3,056	1,932
178.18	2,677	470	178.70	3,064	1,962
178.19	2,684	497	178.71	3,071	1,993
178.20	2,692	523	178.72	3,079	2,024
178.21	2,699	550	178.73	3,086	2,055
178.22	2,707	577	178.74	3,094	2,086
178.23	2,714	605	178.75	3,101	2,117
178.24	2,722	632	178.76	3,108	2,148
178.25	2,729	659	178.77	3,116	2,179
178.26	2,736	686	178.78	3,123	2,210
178.27	2,744	714	178.79	3,131	2,241
178.28	2,751	741	178.80	3,138	2,272
178.29	2,759	769	178.81	3,146	2,304
178.30	2,766	796	178.82	3,153	2,335
178.31	2,774	824	178.83	3,161	2,367
178.32	2,781	852	178.84	3,168	2,399
178.33	2,789	880	178.85	3,175	2,430
178.34	2,796	908	178.86	3,183	2,462
178.35	2,803	936	178.87	3,190	2,494
178.36	2,811	964	178.88	3,198	2,526
178.37	2,818	992	178.89	3,205	2,558
178.38	2,826	1,020	178.90	3,213	2,590
178.39	2,833	1,048	178.91	3,220	2,622
178.40	2,841	1,077	178.92	3,227	2,654
178.41	2,848	1,105	178.93	3,235	2,687
178.42	2,855	1,134	178.94	3,242	2,719
178.43	2,863	1,162	178.95	3,250	2,752
178.44	2,870	1,191	178.96	3,257	2,784
178.45	2,878	1,220	178.97	3,265	2,817
178.46	2,885	1,248	178.98	3,272	2,849
178.47	2,893	1,277	178.99	3,280	2,882
178.48	2,900	1,306	179.00	3,287	2,915
178.49	2,908	1,335	179.01	3,295	2,948
178.50	2,915	1,365	179.02	3,302	2,981
178.51	2,922	1,394	179.03	3,310	3,014

Stage-Area-Storage for Pond B-16A: Basin #16A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
179.04	3,318	3,047	179.56	3,719	4,877
179.05	3,326	3,080	179.57	3,727	4,914
179.06	3,333	3,114	179.58	3,735	4,951
179.07	3,341	3,147	179.59	3,742	4,989
179.08	3,349	3,180	179.60	3,750	5,026
179.09	3,356	3,214	179.61	3,758	5,064
179.10	3,364	3,248	179.62	3,766	5,101
179.11	3,372	3,281	179.63	3,773	5,139
179.12	3,380	3,315	179.64	3,781	5,177
179.13	3,387	3,349	179.65	3,789	5,215
179.14	3,395	3,383	179.66	3,797	5,253
179.15	3,403	3,417	179.67	3,804	5,291
179.16	3,411	3,451	179.68	3,812	5,329
179.17	3,418	3,485	179.69	3,820	5,367
179.18	3,426	3,519	179.70	3,827	5,405
179.19	3,434	3,553	179.71	3,835	5,443
179.20	3,441	3,588	179.72	3,843	5,482
179.21	3,449	3,622	179.73	3,851	5,520
179.22	3,457	3,657	179.74	3,858	5,559
179.23	3,465	3,691	179.75	3,866	5,597
179.24	3,472	3,726	179.76	3,874	5,636
179.25	3,480	3,761	179.77	3,881	5,675
179.26	3,488	3,796	179.78	3,889	5,714
179.27	3,495	3,831	179.79	3,897	5,753
179.28	3,503	3,866	179.80	3,905	5,792
179.29	3,511	3,901	179.81	3,912	5,831
179.30	3,519	3,936	179.82	3,920	5,870
179.31	3,526	3,971	179.83	3,928	5,909
179.32	3,534	4,006	179.84	3,935	5,948
179.33	3,542	4,042	179.85	3,943	5,988
179.34	3,549	4,077	179.86	3,951	6,027
179.35	3,557	4,113	179.87	3,959	6,067
179.36	3,565	4,148	179.88	3,966	6,106
179.37	3,573	4,184	179.89	3,974	6,146
179.38	3,580	4,220	179.90	3,982	6,186
179.39	3,588	4,256	179.91	3,990	6,226
179.40	3,596	4,292	179.92	3,997	6,266
179.41	3,604	4,328	179.93	4,005	6,306
179.42	3,611	4,364	179.94	4,013	6,346
179.43	3,619	4,400	179.95	4,020	6,386
179.44	3,627	4,436	179.96	4,028	6,426
179.45	3,634	4,472	179.97	4,036	6,467
179.46	3,642	4,509	179.98	4,044	6,507
179.47	3,650	4,545	179.99	4,051	6,547
179.48	3,658	4,582	180.00	4,059	6,588
179.49	3,665	4,618	180.01	4,067	6,629
179.50	3,673	4,655	180.02	4,075	6,669
179.51	3,681	4,692	180.03	4,083	6,710
179.52	3,688	4,729	180.04	4,091	6,751
179.53	3,696	4,766	180.05	4,099	6,792
179.54	3,704	4,803	180.06	4,107	6,833
179.55	3,712	4,840	180.07	4,115	6,874

Stage-Area-Storage for Pond B-16A: Basin #16A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
180.08	4,123	6,915	180.60	4,538	9,167
180.09	4,131	6,957	180.61	4,546	9,213
180.10	4,139	6,998	180.62	4,554	9,258
180.11	4,147	7,039	180.63	4,562	9,304
180.12	4,155	7,081	180.64	4,570	9,349
180.13	4,163	7,122	180.65	4,578	9,395
180.14	4,171	7,164	180.66	4,586	9,441
180.15	4,179	7,206	180.67	4,594	9,487
180.16	4,187	7,248	180.68	4,602	9,533
180.17	4,195	7,290	180.69	4,610	9,579
180.18	4,203	7,332	180.70	4,618	9,625
180.19	4,211	7,374	180.71	4,626	9,671
180.20	4,219	7,416	180.72	4,634	9,718
180.21	4,227	7,458	180.73	4,642	9,764
180.22	4,235	7,500	180.74	4,650	9,810
180.23	4,243	7,543	180.75	4,658	9,857
180.24	4,251	7,585	180.76	4,666	9,904
180.25	4,259	7,628	180.77	4,674	9,950
180.26	4,267	7,670	180.78	4,682	9,997
180.27	4,275	7,713	180.79	4,690	10,044
180.28	4,283	7,756	180.80	4,698	10,091
180.29	4,291	7,799	180.81	4,706	10,138
180.30	4,299	7,842	180.82	4,714	10,185
180.31	4,307	7,885	180.83	4,722	10,232
180.32	4,315	7,928	180.84	4,730	10,279
180.33	4,323	7,971	180.85	4,738	10,327
180.34	4,331	8,014	180.86	4,746	10,374
180.35	4,339	8,058	180.87	4,754	10,422
180.36	4,347	8,101	180.88	4,762	10,469
180.37	4,355	8,145	180.89	4,770	10,517
180.38	4,363	8,188	180.90	4,778	10,565
180.39	4,371	8,232	180.91	4,786	10,613
180.40	4,379	8,276	180.92	4,794	10,660
180.41	4,387	8,319	180.93	4,802	10,708
180.42	4,395	8,363	180.94	4,810	10,756
180.43	4,403	8,407	180.95	4,818	10,805
180.44	4,411	8,451	180.96	4,826	10,853
180.45	4,419	8,495	180.97	4,834	10,901
180.46	4,427	8,540	180.98	4,842	10,949
180.47	4,435	8,584	180.99	4,850	10,998
180.48	4,443	8,628	181.00	4,858	11,047
180.49	4,451	8,673	181.01	4,866	11,095
180.50	4,459	8,717	181.02	4,875	11,144
180.51	4,466	8,762	181.03	4,883	11,193
180.52	4,474	8,807	181.04	4,891	11,241
180.53	4,482	8,851	181.05	4,899	11,290
180.54	4,490	8,896	181.06	4,908	11,339
180.55	4,498	8,941	181.07	4,916	11,389
180.56	4,506	8,986	181.08	4,924	11,438
180.57	4,514	9,031	181.09	4,932	11,487
180.58	4,522	9,077	181.10	4,941	11,536
180.59	4,530	9,122	181.11	4,949	11,586

Stage-Area-Storage for Pond B-16A: Basin #16A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
181.12	4,957	11,635	181.64	5,387	14,325
181.13	4,966	11,685	181.65	5,396	14,379
181.14	4,974	11,735	181.66	5,404	14,433
181.15	4,982	11,785	181.67	5,412	14,487
181.16	4,990	11,834	181.68	5,420	14,541
181.17	4,999	11,884	181.69	5,429	14,595
181.18	5,007	11,934	181.70	5,437	14,650
181.19	5,015	11,984	181.71	5,445	14,704
181.20	5,023	12,035	181.72	5,453	14,759
181.21	5,032	12,085	181.73	5,462	14,813
181.22	5,040	12,135	181.74	5,470	14,868
181.23	5,048	12,186	181.75	5,478	14,923
181.24	5,056	12,236	181.76	5,487	14,977
181.25	5,065	12,287	181.77	5,495	15,032
181.26	5,073	12,338	181.78	5,503	15,087
181.27	5,081	12,388	181.79	5,511	15,142
181.28	5,090	12,439	181.80	5,520	15,198
181.29	5,098	12,490	181.81	5,528	15,253
181.30	5,106	12,541	181.82	5,536	15,308
181.31	5,114	12,592	181.83	5,544	15,364
181.32	5,123	12,643	181.84	5,553	15,419
181.33	5,131	12,695	181.85	5,561	15,475
181.34	5,139	12,746	181.86	5,569	15,530
181.35	5,147	12,797	181.87	5,577	15,586
181.36	5,156	12,849	181.88	5,586	15,642
181.37	5,164	12,901	181.89	5,594	15,698
181.38	5,172	12,952	181.90	5,602	15,754
181.39	5,181	13,004	181.91	5,611	15,810
181.40	5,189	13,056	181.92	5,619	15,866
181.41	5,197	13,108	181.93	5,627	15,922
181.42	5,205	13,160	181.94	5,635	15,978
181.43	5,214	13,212	181.95	5,644	16,035
181.44	5,222	13,264	181.96	5,652	16,091
181.45	5,230	13,316	181.97	5,660	16,148
181.46	5,238	13,369	181.98	5,668	16,204
181.47	5,247	13,421	181.99	5,677	16,261
181.48	5,255	13,474	182.00	5,685	16,318
181.49	5,263	13,526			
181.50	5,272	13,579			
181.51	5,280	13,632			
181.52	5,288	13,684			
181.53	5,296	13,737			
181.54	5,305	13,790			
181.55	5,313	13,843			
181.56	5,321	13,897			
181.57	5,329	13,950			
181.58	5,338	14,003			
181.59	5,346	14,057			
181.60	5,354	14,110			
181.61	5,362	14,164			
181.62	5,371	14,217			
181.63	5,379	14,271			

Summary for Pond B-16B: Basin #16B

Inflow Area = 1.877 ac, 43.74% Impervious, Inflow Depth = 6.72" for Current 100 yr event
 Inflow = 12.76 cfs @ 12.17 hrs, Volume= 1.051 af
 Outflow = 11.24 cfs @ 12.23 hrs, Volume= 0.972 af, Atten= 12%, Lag= 3.5 min
 Primary = 11.24 cfs @ 12.23 hrs, Volume= 0.972 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 180.72' @ 12.23 hrs Surf.Area= 4,957 sf Storage= 10,986 cf

Plug-Flow detention time= 100.7 min calculated for 0.971 af (92% of inflow)
 Center-of-Mass det. time= 59.5 min (838.6 - 779.1)

Volume	Invert	Avail.Storage	Storage Description
#1	178.00'	17,892 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
178.00	3,145	0	0
179.00	3,781	3,463	3,463
180.00	4,451	4,116	7,579
181.00	5,149	4,800	12,379
182.00	5,877	5,513	17,892

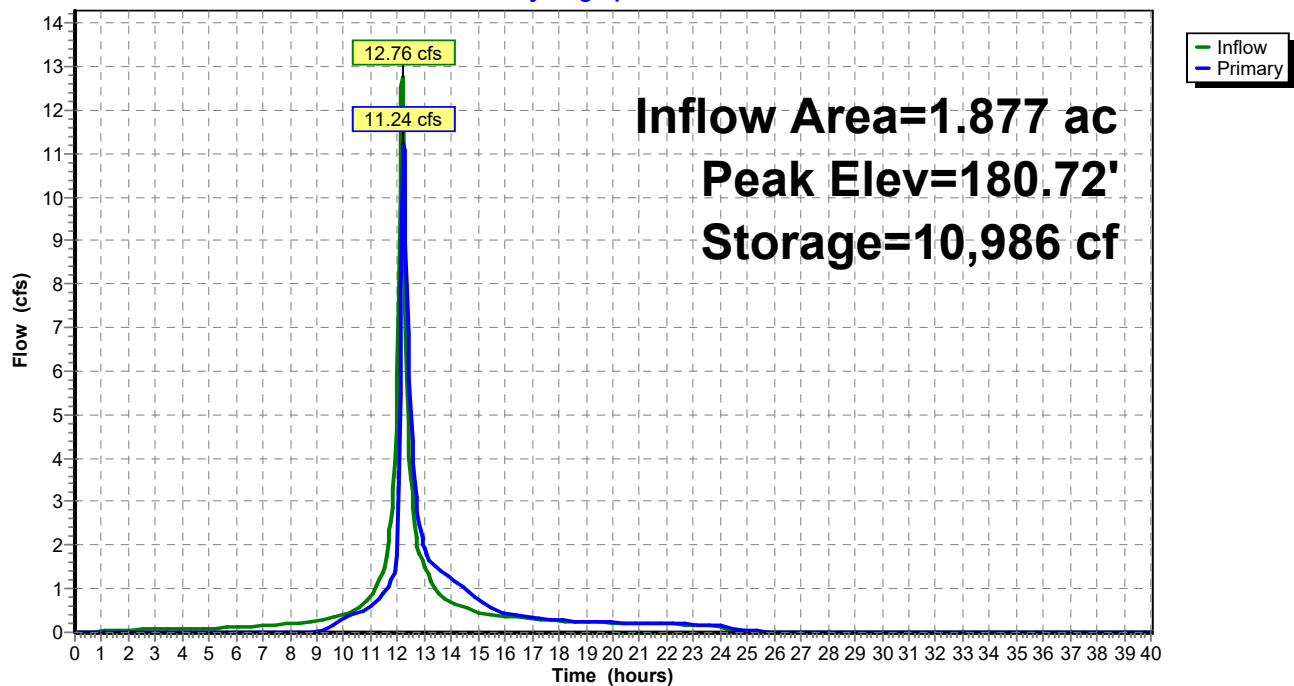
Device	Routing	Invert	Outlet Devices
#1	Primary	176.65'	18.0" Round Culvert L= 53.0' Ke= 0.500 Inlet / Outlet Invert= 176.65' / 172.00' S= 0.0877 ' S= 0.0877 ' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	179.00'	24.0" W x 2.0" H Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	180.00'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	180.67'	50.0' long + 3.0 ' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=10.94 cfs @ 12.23 hrs HW=180.72' (Free Discharge)

1=Culvert (Passes 9.72 cfs of 15.50 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 2.05 cfs @ 6.15 fps)
 3=Sharp-Crested Rectangular Weir (Weir Controls 7.67 cfs @ 2.77 fps)
 4=Broad-Crested Rectangular Weir (Weir Controls 1.22 cfs @ 0.51 fps)

Pond B-16B: Basin #16B

Hydrograph



Stage-Discharge for Pond B-16B: Basin #16B

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
178.00	0.00	178.52	0.00	179.04	0.05	179.56	1.11
178.01	0.00	178.53	0.00	179.05	0.07	179.57	1.12
178.02	0.00	178.54	0.00	179.06	0.09	179.58	1.13
178.03	0.00	178.55	0.00	179.07	0.12	179.59	1.14
178.04	0.00	178.56	0.00	179.08	0.15	179.60	1.15
178.05	0.00	178.57	0.00	179.09	0.17	179.61	1.16
178.06	0.00	178.58	0.00	179.10	0.20	179.62	1.17
178.07	0.00	178.59	0.00	179.11	0.23	179.63	1.19
178.08	0.00	178.60	0.00	179.12	0.27	179.64	1.20
178.09	0.00	178.61	0.00	179.13	0.30	179.65	1.21
178.10	0.00	178.62	0.00	179.14	0.34	179.66	1.22
178.11	0.00	178.63	0.00	179.15	0.37	179.67	1.23
178.12	0.00	178.64	0.00	179.16	0.41	179.68	1.24
178.13	0.00	178.65	0.00	179.17	0.45	179.69	1.25
178.14	0.00	178.66	0.00	179.18	0.48	179.70	1.26
178.15	0.00	178.67	0.00	179.19	0.51	179.71	1.27
178.16	0.00	178.68	0.00	179.20	0.54	179.72	1.28
178.17	0.00	178.69	0.00	179.21	0.56	179.73	1.29
178.18	0.00	178.70	0.00	179.22	0.58	179.74	1.30
178.19	0.00	178.71	0.00	179.23	0.61	179.75	1.31
178.20	0.00	178.72	0.00	179.24	0.63	179.76	1.32
178.21	0.00	178.73	0.00	179.25	0.65	179.77	1.33
178.22	0.00	178.74	0.00	179.26	0.67	179.78	1.34
178.23	0.00	178.75	0.00	179.27	0.69	179.79	1.35
178.24	0.00	178.76	0.00	179.28	0.71	179.80	1.36
178.25	0.00	178.77	0.00	179.29	0.72	179.81	1.37
178.26	0.00	178.78	0.00	179.30	0.74	179.82	1.38
178.27	0.00	178.79	0.00	179.31	0.76	179.83	1.39
178.28	0.00	178.80	0.00	179.32	0.78	179.84	1.40
178.29	0.00	178.81	0.00	179.33	0.79	179.85	1.40
178.30	0.00	178.82	0.00	179.34	0.81	179.86	1.41
178.31	0.00	178.83	0.00	179.35	0.83	179.87	1.42
178.32	0.00	178.84	0.00	179.36	0.84	179.88	1.43
178.33	0.00	178.85	0.00	179.37	0.86	179.89	1.44
178.34	0.00	178.86	0.00	179.38	0.87	179.90	1.45
178.35	0.00	178.87	0.00	179.39	0.89	179.91	1.46
178.36	0.00	178.88	0.00	179.40	0.90	179.92	1.47
178.37	0.00	178.89	0.00	179.41	0.91	179.93	1.48
178.38	0.00	178.90	0.00	179.42	0.93	179.94	1.48
178.39	0.00	178.91	0.00	179.43	0.94	179.95	1.49
178.40	0.00	178.92	0.00	179.44	0.96	179.96	1.50
178.41	0.00	178.93	0.00	179.45	0.97	179.97	1.51
178.42	0.00	178.94	0.00	179.46	0.98	179.98	1.52
178.43	0.00	178.95	0.00	179.47	1.00	179.99	1.53
178.44	0.00	178.96	0.00	179.48	1.01	180.00	1.54
178.45	0.00	178.97	0.00	179.49	1.02	180.01	1.56
178.46	0.00	178.98	0.00	179.50	1.03	180.02	1.59
178.47	0.00	178.99	0.00	179.51	1.05	180.03	1.63
178.48	0.00	179.00	0.00	179.52	1.06	180.04	1.67
178.49	0.00	179.01	0.01	179.53	1.07	180.05	1.72
178.50	0.00	179.02	0.02	179.54	1.08	180.06	1.78
178.51	0.00	179.03	0.03	179.55	1.09	180.07	1.84

Stage-Discharge for Pond B-16B: Basin #16B (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
180.08	1.90	180.60	7.87	181.12	55.73	181.64	151.50
180.09	1.96	180.61	8.02	181.13	57.25	181.65	153.66
180.10	2.03	180.62	8.18	181.14	58.79	181.66	155.83
180.11	2.10	180.63	8.33	181.15	60.36	181.67	158.01
180.12	2.17	180.64	8.48	181.16	61.96	181.68	160.16
180.13	2.25	180.65	8.64	181.17	63.59	181.69	162.31
180.14	2.33	180.66	8.80	181.18	65.24	181.70	164.48
180.15	2.41	180.67	8.95	181.19	66.91	181.71	166.66
180.16	2.50	180.68	9.23	181.20	68.62	181.72	168.84
180.17	2.58	180.69	9.60	181.21	70.35	181.73	171.04
180.18	2.67	180.70	10.04	181.22	72.10	181.74	173.25
180.19	2.76	180.71	10.53	181.23	73.89	181.75	175.47
180.20	2.85	180.72	11.07	181.24	75.70	181.76	177.70
180.21	2.95	180.73	11.64	181.25	77.53	181.77	179.94
180.22	3.05	180.74	12.26	181.26	79.40	181.78	182.19
180.23	3.14	180.75	12.91	181.27	81.29	181.79	184.45
180.24	3.25	180.76	13.59	181.28	82.94	181.80	186.72
180.25	3.35	180.77	14.30	181.29	84.60	181.81	189.00
180.26	3.45	180.78	15.04	181.30	86.27	181.82	191.29
180.27	3.56	180.79	15.81	181.31	87.96	181.83	193.59
180.28	3.67	180.80	16.61	181.32	89.66	181.84	195.90
180.29	3.78	180.81	17.43	181.33	91.38	181.85	198.22
180.30	3.89	180.82	18.28	181.34	93.11	181.86	200.55
180.31	4.00	180.83	19.15	181.35	94.85	181.87	202.89
180.32	4.11	180.84	20.04	181.36	96.60	181.88	205.28
180.33	4.23	180.85	20.96	181.37	98.37	181.89	207.68
180.34	4.35	180.86	21.90	181.38	100.15	181.90	210.08
180.35	4.47	180.87	22.86	181.39	101.94	181.91	212.50
180.36	4.59	180.88	23.89	181.40	103.75	181.92	214.93
180.37	4.71	180.89	24.93	181.41	105.57	181.93	217.37
180.38	4.83	180.90	26.01	181.42	107.40	181.94	219.82
180.39	4.96	180.91	27.11	181.43	109.24	181.95	222.28
180.40	5.08	180.92	28.24	181.44	111.09	181.96	224.75
180.41	5.21	180.93	29.39	181.45	112.96	181.97	227.23
180.42	5.34	180.94	30.57	181.46	114.84	181.98	229.73
180.43	5.47	180.95	31.78	181.47	116.73	181.99	232.23
180.44	5.60	180.96	33.01	181.48	118.67	182.00	234.74
180.45	5.74	180.97	34.26	181.49	120.62		
180.46	5.87	180.98	35.54	181.50	122.59		
180.47	6.01	180.99	36.85	181.51	124.57		
180.48	6.14	181.00	38.18	181.52	126.57		
180.49	6.28	181.01	39.54	181.53	128.57		
180.50	6.42	181.02	40.92	181.54	130.59		
180.51	6.56	181.03	42.32	181.55	132.62		
180.52	6.70	181.04	43.75	181.56	134.67		
180.53	6.84	181.05	45.21	181.57	136.73		
180.54	6.99	181.06	46.69	181.58	138.80		
180.55	7.13	181.07	48.19	181.59	140.88		
180.56	7.28	181.08	49.75	181.60	142.98		
180.57	7.43	181.09	51.33	181.61	145.09		
180.58	7.57	181.10	52.77	181.62	147.21		
180.59	7.72	181.11	54.24	181.63	149.35		

Stage-Area-Storage for Pond B-16B: Basin #16B

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
178.00	3,145	0	178.52	3,476	1,721
178.01	3,151	31	178.53	3,482	1,756
178.02	3,158	63	178.54	3,488	1,791
178.03	3,164	95	178.55	3,495	1,826
178.04	3,170	126	178.56	3,501	1,861
178.05	3,177	158	178.57	3,508	1,896
178.06	3,183	190	178.58	3,514	1,931
178.07	3,190	222	178.59	3,520	1,966
178.08	3,196	254	178.60	3,527	2,001
178.09	3,202	286	178.61	3,533	2,037
178.10	3,209	318	178.62	3,539	2,072
178.11	3,215	350	178.63	3,546	2,108
178.12	3,221	382	178.64	3,552	2,143
178.13	3,228	414	178.65	3,558	2,179
178.14	3,234	447	178.66	3,565	2,214
178.15	3,240	479	178.67	3,571	2,250
178.16	3,247	511	178.68	3,577	2,286
178.17	3,253	544	178.69	3,584	2,321
178.18	3,259	576	178.70	3,590	2,357
178.19	3,266	609	178.71	3,597	2,393
178.20	3,272	642	178.72	3,603	2,429
178.21	3,279	674	178.73	3,609	2,465
178.22	3,285	707	178.74	3,616	2,501
178.23	3,291	740	178.75	3,622	2,538
178.24	3,298	773	178.76	3,628	2,574
178.25	3,304	806	178.77	3,635	2,610
178.26	3,310	839	178.78	3,641	2,647
178.27	3,317	872	178.79	3,647	2,683
178.28	3,323	906	178.80	3,654	2,720
178.29	3,329	939	178.81	3,660	2,756
178.30	3,336	972	178.82	3,667	2,793
178.31	3,342	1,006	178.83	3,673	2,829
178.32	3,349	1,039	178.84	3,679	2,866
178.33	3,355	1,072	178.85	3,686	2,903
178.34	3,361	1,106	178.86	3,692	2,940
178.35	3,368	1,140	178.87	3,698	2,977
178.36	3,374	1,173	178.88	3,705	3,014
178.37	3,380	1,207	178.89	3,711	3,051
178.38	3,387	1,241	178.90	3,717	3,088
178.39	3,393	1,275	178.91	3,724	3,125
178.40	3,399	1,309	178.92	3,730	3,163
178.41	3,406	1,343	178.93	3,736	3,200
178.42	3,412	1,377	178.94	3,743	3,237
178.43	3,418	1,411	178.95	3,749	3,275
178.44	3,425	1,445	178.96	3,756	3,312
178.45	3,431	1,480	178.97	3,762	3,350
178.46	3,438	1,514	178.98	3,768	3,388
178.47	3,444	1,548	178.99	3,775	3,425
178.48	3,450	1,583	179.00	3,781	3,463
178.49	3,457	1,617	179.01	3,788	3,501
178.50	3,463	1,652	179.02	3,794	3,539
178.51	3,469	1,687	179.03	3,801	3,577

Stage-Area-Storage for Pond B-16B: Basin #16B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
179.04	3,808	3,615	179.56	4,156	5,685
179.05	3,815	3,653	179.57	4,163	5,727
179.06	3,821	3,691	179.58	4,170	5,769
179.07	3,828	3,729	179.59	4,176	5,810
179.08	3,835	3,768	179.60	4,183	5,852
179.09	3,841	3,806	179.61	4,190	5,894
179.10	3,848	3,844	179.62	4,196	5,936
179.11	3,855	3,883	179.63	4,203	5,978
179.12	3,861	3,922	179.64	4,210	6,020
179.13	3,868	3,960	179.65	4,217	6,062
179.14	3,875	3,999	179.66	4,223	6,104
179.15	3,882	4,038	179.67	4,230	6,147
179.16	3,888	4,077	179.68	4,237	6,189
179.17	3,895	4,115	179.69	4,243	6,231
179.18	3,902	4,154	179.70	4,250	6,274
179.19	3,908	4,193	179.71	4,257	6,316
179.20	3,915	4,233	179.72	4,263	6,359
179.21	3,922	4,272	179.73	4,270	6,402
179.22	3,928	4,311	179.74	4,277	6,444
179.23	3,935	4,350	179.75	4,284	6,487
179.24	3,942	4,390	179.76	4,290	6,530
179.25	3,949	4,429	179.77	4,297	6,573
179.26	3,955	4,469	179.78	4,304	6,616
179.27	3,962	4,508	179.79	4,310	6,659
179.28	3,969	4,548	179.80	4,317	6,702
179.29	3,975	4,588	179.81	4,324	6,745
179.30	3,982	4,627	179.82	4,330	6,789
179.31	3,989	4,667	179.83	4,337	6,832
179.32	3,995	4,707	179.84	4,344	6,875
179.33	4,002	4,747	179.85	4,350	6,919
179.34	4,009	4,787	179.86	4,357	6,962
179.35	4,015	4,827	179.87	4,364	7,006
179.36	4,022	4,868	179.88	4,371	7,050
179.37	4,029	4,908	179.89	4,377	7,093
179.38	4,036	4,948	179.90	4,384	7,137
179.39	4,042	4,989	179.91	4,391	7,181
179.40	4,049	5,029	179.92	4,397	7,225
179.41	4,056	5,070	179.93	4,404	7,269
179.42	4,062	5,110	179.94	4,411	7,313
179.43	4,069	5,151	179.95	4,417	7,357
179.44	4,076	5,191	179.96	4,424	7,401
179.45	4,082	5,232	179.97	4,431	7,446
179.46	4,089	5,273	179.98	4,438	7,490
179.47	4,096	5,314	179.99	4,444	7,535
179.48	4,103	5,355	180.00	4,451	7,579
179.49	4,109	5,396	180.01	4,458	7,624
179.50	4,116	5,437	180.02	4,465	7,668
179.51	4,123	5,478	180.03	4,472	7,713
179.52	4,129	5,520	180.04	4,479	7,758
179.53	4,136	5,561	180.05	4,486	7,802
179.54	4,143	5,602	180.06	4,493	7,847
179.55	4,150	5,644	180.07	4,500	7,892

Stage-Area-Storage for Pond B-16B: Basin #16B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
180.08	4,507	7,937	180.60	4,870	10,375
180.09	4,514	7,982	180.61	4,877	10,424
180.10	4,521	8,028	180.62	4,884	10,473
180.11	4,528	8,073	180.63	4,891	10,522
180.12	4,535	8,118	180.64	4,898	10,571
180.13	4,542	8,164	180.65	4,905	10,620
180.14	4,549	8,209	180.66	4,912	10,669
180.15	4,556	8,255	180.67	4,919	10,718
180.16	4,563	8,300	180.68	4,926	10,767
180.17	4,570	8,346	180.69	4,933	10,816
180.18	4,577	8,391	180.70	4,940	10,866
180.19	4,584	8,437	180.71	4,947	10,915
180.20	4,591	8,483	180.72	4,954	10,965
180.21	4,598	8,529	180.73	4,961	11,014
180.22	4,605	8,575	180.74	4,968	11,064
180.23	4,612	8,621	180.75	4,975	11,114
180.24	4,619	8,667	180.76	4,981	11,163
180.25	4,626	8,714	180.77	4,988	11,213
180.26	4,632	8,760	180.78	4,995	11,263
180.27	4,639	8,806	180.79	5,002	11,313
180.28	4,646	8,853	180.80	5,009	11,363
180.29	4,653	8,899	180.81	5,016	11,413
180.30	4,660	8,946	180.82	5,023	11,463
180.31	4,667	8,992	180.83	5,030	11,514
180.32	4,674	9,039	180.84	5,037	11,564
180.33	4,681	9,086	180.85	5,044	11,615
180.34	4,688	9,133	180.86	5,051	11,665
180.35	4,695	9,180	180.87	5,058	11,716
180.36	4,702	9,227	180.88	5,065	11,766
180.37	4,709	9,274	180.89	5,072	11,817
180.38	4,716	9,321	180.90	5,079	11,868
180.39	4,723	9,368	180.91	5,086	11,918
180.40	4,730	9,415	180.92	5,093	11,969
180.41	4,737	9,463	180.93	5,100	12,020
180.42	4,744	9,510	180.94	5,107	12,071
180.43	4,751	9,557	180.95	5,114	12,122
180.44	4,758	9,605	180.96	5,121	12,174
180.45	4,765	9,653	180.97	5,128	12,225
180.46	4,772	9,700	180.98	5,135	12,276
180.47	4,779	9,748	180.99	5,142	12,328
180.48	4,786	9,796	181.00	5,149	12,379
180.49	4,793	9,844	181.01	5,156	12,431
180.50	4,800	9,892	181.02	5,164	12,482
180.51	4,807	9,940	181.03	5,171	12,534
180.52	4,814	9,988	181.04	5,178	12,586
180.53	4,821	10,036	181.05	5,185	12,637
180.54	4,828	10,084	181.06	5,193	12,689
180.55	4,835	10,133	181.07	5,200	12,741
180.56	4,842	10,181	181.08	5,207	12,793
180.57	4,849	10,229	181.09	5,215	12,845
180.58	4,856	10,278	181.10	5,222	12,898
180.59	4,863	10,327	181.11	5,229	12,950

Stage-Area-Storage for Pond B-16B: Basin #16B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
181.12	5,236	13,002	181.64	5,615	15,823
181.13	5,244	13,055	181.65	5,622	15,880
181.14	5,251	13,107	181.66	5,629	15,936
181.15	5,258	13,160	181.67	5,637	15,992
181.16	5,265	13,212	181.68	5,644	16,049
181.17	5,273	13,265	181.69	5,651	16,105
181.18	5,280	13,318	181.70	5,659	16,162
181.19	5,287	13,370	181.71	5,666	16,218
181.20	5,295	13,423	181.72	5,673	16,275
181.21	5,302	13,476	181.73	5,680	16,332
181.22	5,309	13,529	181.74	5,688	16,389
181.23	5,316	13,583	181.75	5,695	16,446
181.24	5,324	13,636	181.76	5,702	16,502
181.25	5,331	13,689	181.77	5,710	16,560
181.26	5,338	13,742	181.78	5,717	16,617
181.27	5,346	13,796	181.79	5,724	16,674
181.28	5,353	13,849	181.80	5,731	16,731
181.29	5,360	13,903	181.81	5,739	16,789
181.30	5,367	13,956	181.82	5,746	16,846
181.31	5,375	14,010	181.83	5,753	16,903
181.32	5,382	14,064	181.84	5,761	16,961
181.33	5,389	14,118	181.85	5,768	17,019
181.34	5,397	14,172	181.86	5,775	17,076
181.35	5,404	14,226	181.87	5,782	17,134
181.36	5,411	14,280	181.88	5,790	17,192
181.37	5,418	14,334	181.89	5,797	17,250
181.38	5,426	14,388	181.90	5,804	17,308
181.39	5,433	14,442	181.91	5,811	17,366
181.40	5,440	14,497	181.92	5,819	17,424
181.41	5,447	14,551	181.93	5,826	17,482
181.42	5,455	14,606	181.94	5,833	17,541
181.43	5,462	14,660	181.95	5,841	17,599
181.44	5,469	14,715	181.96	5,848	17,658
181.45	5,477	14,770	181.97	5,855	17,716
181.46	5,484	14,825	181.98	5,862	17,775
181.47	5,491	14,879	181.99	5,870	17,833
181.48	5,498	14,934	182.00	5,877	17,892
181.49	5,506	14,989			
181.50	5,513	15,045			
181.51	5,520	15,100			
181.52	5,528	15,155			
181.53	5,535	15,210			
181.54	5,542	15,266			
181.55	5,549	15,321			
181.56	5,557	15,377			
181.57	5,564	15,432			
181.58	5,571	15,488			
181.59	5,579	15,544			
181.60	5,586	15,599			
181.61	5,593	15,655			
181.62	5,600	15,711			
181.63	5,608	15,767			

Summary for Pond B-17A: Basin #17A

Inflow Area = 1.324 ac, 14.58% Impervious, Inflow Depth = 5.88" for Current 100 yr event
 Inflow = 8.28 cfs @ 12.17 hrs, Volume= 0.649 af
 Outflow = 0.26 cfs @ 15.89 hrs, Volume= 0.515 af, Atten= 97%, Lag= 223.3 min
 Primary = 0.26 cfs @ 15.89 hrs, Volume= 0.515 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 181.81' @ 15.89 hrs Surf.Area= 8,452 sf Storage= 19,541 cf

Plug-Flow detention time= 741.6 min calculated for 0.515 af (79% of inflow)
 Center-of-Mass det. time= 659.6 min (1,464.1 - 804.5)

Volume	Invert	Avail.Storage	Storage Description
#1	179.00'	30,377 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
179.00	5,508	0	0
180.00	6,502	6,005	6,005
181.00	7,552	7,027	13,032
182.00	8,658	8,105	21,137
183.00	9,821	9,240	30,377

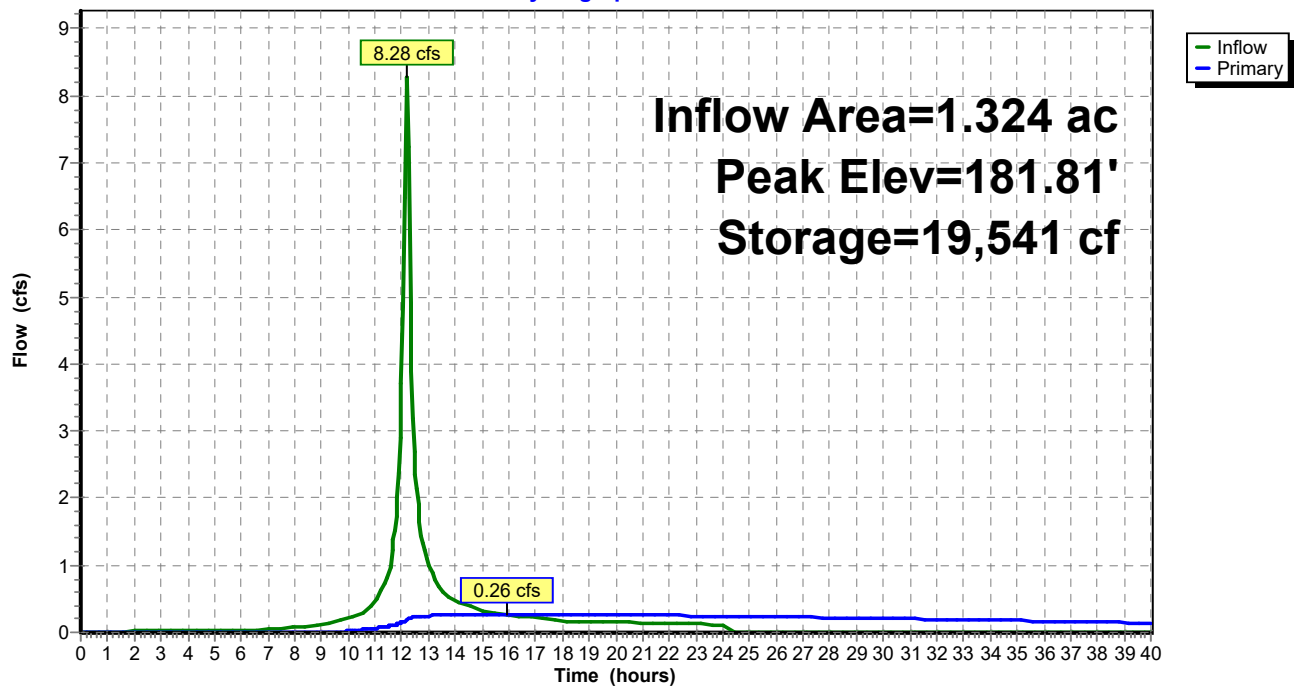
Device	Routing	Invert	Outlet Devices
#1	Primary	177.65'	18.0" Round Culvert L= 40.0' Ke= 0.500 Inlet / Outlet Invert= 177.65' / 177.00' S= 0.0163 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	179.18'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	182.00'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	181.95'	50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.26 cfs @ 15.89 hrs HW=181.81' (Free Discharge)

1=Culvert (Passes 0.26 cfs of 15.72 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.26 cfs @ 7.66 fps)
 3=Sharp-Crested Rectangular Weir(Controls 0.00 cfs)
 4=Broad-Crested Rectangular Weir(Controls 0.00 cfs)

Pond B-17A: Basin #17A

Hydrograph



Stage-Discharge for Pond B-17A: Basin #17A

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
179.00	0.00	179.52	0.08	180.04	0.14	180.56	0.19
179.01	0.00	179.53	0.08	180.05	0.14	180.57	0.19
179.02	0.00	179.54	0.08	180.06	0.14	180.58	0.19
179.03	0.00	179.55	0.08	180.07	0.15	180.59	0.19
179.04	0.00	179.56	0.09	180.08	0.15	180.60	0.19
179.05	0.00	179.57	0.09	180.09	0.15	180.61	0.19
179.06	0.00	179.58	0.09	180.10	0.15	180.62	0.19
179.07	0.00	179.59	0.09	180.11	0.15	180.63	0.19
179.08	0.00	179.60	0.09	180.12	0.15	180.64	0.19
179.09	0.00	179.61	0.09	180.13	0.15	180.65	0.19
179.10	0.00	179.62	0.10	180.14	0.15	180.66	0.19
179.11	0.00	179.63	0.10	180.15	0.15	180.67	0.19
179.12	0.00	179.64	0.10	180.16	0.15	180.68	0.19
179.13	0.00	179.65	0.10	180.17	0.15	180.69	0.19
179.14	0.00	179.66	0.10	180.18	0.16	180.70	0.20
179.15	0.00	179.67	0.10	180.19	0.16	180.71	0.20
179.16	0.00	179.68	0.10	180.20	0.16	180.72	0.20
179.17	0.00	179.69	0.10	180.21	0.16	180.73	0.20
179.18	0.00	179.70	0.11	180.22	0.16	180.74	0.20
179.19	0.00	179.71	0.11	180.23	0.16	180.75	0.20
179.20	0.00	179.72	0.11	180.24	0.16	180.76	0.20
179.21	0.00	179.73	0.11	180.25	0.16	180.77	0.20
179.22	0.00	179.74	0.11	180.26	0.16	180.78	0.20
179.23	0.00	179.75	0.11	180.27	0.16	180.79	0.20
179.24	0.01	179.76	0.11	180.28	0.16	180.80	0.20
179.25	0.01	179.77	0.11	180.29	0.16	180.81	0.20
179.26	0.01	179.78	0.12	180.30	0.17	180.82	0.20
179.27	0.01	179.79	0.12	180.31	0.17	180.83	0.20
179.28	0.02	179.80	0.12	180.32	0.17	180.84	0.20
179.29	0.02	179.81	0.12	180.33	0.17	180.85	0.21
179.30	0.02	179.82	0.12	180.34	0.17	180.86	0.21
179.31	0.03	179.83	0.12	180.35	0.17	180.87	0.21
179.32	0.03	179.84	0.12	180.36	0.17	180.88	0.21
179.33	0.03	179.85	0.12	180.37	0.17	180.89	0.21
179.34	0.04	179.86	0.12	180.38	0.17	180.90	0.21
179.35	0.04	179.87	0.13	180.39	0.17	180.91	0.21
179.36	0.05	179.88	0.13	180.40	0.17	180.92	0.21
179.37	0.05	179.89	0.13	180.41	0.17	180.93	0.21
179.38	0.05	179.90	0.13	180.42	0.17	180.94	0.21
179.39	0.05	179.91	0.13	180.43	0.18	180.95	0.21
179.40	0.06	179.92	0.13	180.44	0.18	180.96	0.21
179.41	0.06	179.93	0.13	180.45	0.18	180.97	0.21
179.42	0.06	179.94	0.13	180.46	0.18	180.98	0.21
179.43	0.06	179.95	0.13	180.47	0.18	180.99	0.21
179.44	0.06	179.96	0.13	180.48	0.18	181.00	0.22
179.45	0.07	179.97	0.14	180.49	0.18	181.01	0.22
179.46	0.07	179.98	0.14	180.50	0.18	181.02	0.22
179.47	0.07	179.99	0.14	180.51	0.18	181.03	0.22
179.48	0.07	180.00	0.14	180.52	0.18	181.04	0.22
179.49	0.07	180.01	0.14	180.53	0.18	181.05	0.22
179.50	0.08	180.02	0.14	180.54	0.18	181.06	0.22
179.51	0.08	180.03	0.14	180.55	0.18	181.07	0.22

Stage-Discharge for Pond B-17A: Basin #17A (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
181.08	0.22	181.60	0.25	182.12	9.08	182.64	86.46
181.09	0.22	181.61	0.25	182.13	9.90	182.65	88.35
181.10	0.22	181.62	0.25	182.14	10.74	182.66	90.26
181.11	0.22	181.63	0.25	182.15	11.60	182.67	92.18
181.12	0.22	181.64	0.25	182.16	12.52	182.68	94.12
181.13	0.22	181.65	0.25	182.17	13.47	182.69	96.07
181.14	0.22	181.66	0.25	182.18	14.45	182.70	98.03
181.15	0.22	181.67	0.25	182.19	15.46	182.71	100.01
181.16	0.22	181.68	0.25	182.20	16.49	182.72	102.00
181.17	0.23	181.69	0.25	182.21	17.55	182.73	104.00
181.18	0.23	181.70	0.26	182.22	18.64	182.74	106.02
181.19	0.23	181.71	0.26	182.23	19.76	182.75	108.05
181.20	0.23	181.72	0.26	182.24	20.90	182.76	110.13
181.21	0.23	181.73	0.26	182.25	22.07	182.77	112.22
181.22	0.23	181.74	0.26	182.26	23.26	182.78	114.33
181.23	0.23	181.75	0.26	182.27	24.48	182.79	116.45
181.24	0.23	181.76	0.26	182.28	25.73	182.80	118.59
181.25	0.23	181.77	0.26	182.29	27.00	182.81	120.74
181.26	0.23	181.78	0.26	182.30	28.30	182.82	122.90
181.27	0.23	181.79	0.26	182.31	29.62	182.83	125.08
181.28	0.23	181.80	0.26	182.32	30.97	182.84	127.27
181.29	0.23	181.81	0.26	182.33	32.35	182.85	129.48
181.30	0.23	181.82	0.26	182.34	33.75	182.86	131.70
181.31	0.23	181.83	0.26	182.35	35.18	182.87	133.93
181.32	0.23	181.84	0.26	182.36	36.66	182.88	136.18
181.33	0.23	181.85	0.26	182.37	38.17	182.89	138.44
181.34	0.24	181.86	0.26	182.38	39.70	182.90	140.71
181.35	0.24	181.87	0.26	182.39	41.26	182.91	143.00
181.36	0.24	181.88	0.26	182.40	42.85	182.92	145.30
181.37	0.24	181.89	0.26	182.41	44.47	182.93	147.61
181.38	0.24	181.90	0.27	182.42	46.11	182.94	149.94
181.39	0.24	181.91	0.27	182.43	47.79	182.95	152.28
181.40	0.24	181.92	0.27	182.44	49.49	182.96	154.58
181.41	0.24	181.93	0.27	182.45	51.22	182.97	156.90
181.42	0.24	181.94	0.27	182.46	52.97	182.98	159.22
181.43	0.24	181.95	0.27	182.47	54.76	182.99	161.55
181.44	0.24	181.96	0.39	182.48	56.57	183.00	163.90
181.45	0.24	181.97	0.60	182.49	58.41		
181.46	0.24	181.98	0.88	182.50	60.28		
181.47	0.24	181.99	1.21	182.51	62.17		
181.48	0.24	182.00	1.58	182.52	64.09		
181.49	0.24	182.01	2.01	182.53	66.05		
181.50	0.24	182.02	2.48	182.54	68.03		
181.51	0.24	182.03	3.00	182.55	70.03		
181.52	0.25	182.04	3.55	182.56	71.80		
181.53	0.25	182.05	4.14	182.57	73.58		
181.54	0.25	182.06	4.76	182.58	75.38		
181.55	0.25	182.07	5.41	182.59	77.19		
181.56	0.25	182.08	6.09	182.60	79.01		
181.57	0.25	182.09	6.80	182.61	80.85		
181.58	0.25	182.10	7.53	182.62	82.71		
181.59	0.25	182.11	8.30	182.63	84.57		

Stage-Area-Storage for Pond B-17A: Basin #17A

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
179.00	5,508	0	179.52	6,025	2,999
179.01	5,518	55	179.53	6,035	3,059
179.02	5,528	110	179.54	6,045	3,119
179.03	5,538	166	179.55	6,055	3,180
179.04	5,548	221	179.56	6,065	3,240
179.05	5,558	277	179.57	6,075	3,301
179.06	5,568	332	179.58	6,085	3,362
179.07	5,578	388	179.59	6,094	3,423
179.08	5,588	444	179.60	6,104	3,484
179.09	5,597	500	179.61	6,114	3,545
179.10	5,607	556	179.62	6,124	3,606
179.11	5,617	612	179.63	6,134	3,667
179.12	5,627	668	179.64	6,144	3,729
179.13	5,637	724	179.65	6,154	3,790
179.14	5,647	781	179.66	6,164	3,852
179.15	5,657	837	179.67	6,174	3,913
179.16	5,667	894	179.68	6,184	3,975
179.17	5,677	951	179.69	6,194	4,037
179.18	5,687	1,008	179.70	6,204	4,099
179.19	5,697	1,064	179.71	6,214	4,161
179.20	5,707	1,121	179.72	6,224	4,223
179.21	5,717	1,179	179.73	6,234	4,286
179.22	5,727	1,236	179.74	6,244	4,348
179.23	5,737	1,293	179.75	6,254	4,411
179.24	5,747	1,351	179.76	6,263	4,473
179.25	5,757	1,408	179.77	6,273	4,536
179.26	5,766	1,466	179.78	6,283	4,599
179.27	5,776	1,523	179.79	6,293	4,661
179.28	5,786	1,581	179.80	6,303	4,724
179.29	5,796	1,639	179.81	6,313	4,788
179.30	5,806	1,697	179.82	6,323	4,851
179.31	5,816	1,755	179.83	6,333	4,914
179.32	5,826	1,813	179.84	6,343	4,977
179.33	5,836	1,872	179.85	6,353	5,041
179.34	5,846	1,930	179.86	6,363	5,104
179.35	5,856	1,989	179.87	6,373	5,168
179.36	5,866	2,047	179.88	6,383	5,232
179.37	5,876	2,106	179.89	6,393	5,296
179.38	5,886	2,165	179.90	6,403	5,360
179.39	5,896	2,224	179.91	6,413	5,424
179.40	5,906	2,283	179.92	6,422	5,488
179.41	5,916	2,342	179.93	6,432	5,552
179.42	5,925	2,401	179.94	6,442	5,617
179.43	5,935	2,460	179.95	6,452	5,681
179.44	5,945	2,520	179.96	6,462	5,746
179.45	5,955	2,579	179.97	6,472	5,810
179.46	5,965	2,639	179.98	6,482	5,875
179.47	5,975	2,699	179.99	6,492	5,940
179.48	5,985	2,758	180.00	6,502	6,005
179.49	5,995	2,818	180.01	6,512	6,070
179.50	6,005	2,878	180.02	6,523	6,135
179.51	6,015	2,938	180.03	6,534	6,201

Stage-Area-Storage for Pond B-17A: Basin #17A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
180.04	6,544	6,266	180.56	7,090	9,811
180.05	6,555	6,331	180.57	7,100	9,882
180.06	6,565	6,397	180.58	7,111	9,953
180.07	6,575	6,463	180.59	7,122	10,024
180.08	6,586	6,529	180.60	7,132	10,095
180.09	6,597	6,594	180.61	7,143	10,167
180.10	6,607	6,660	180.62	7,153	10,238
180.11	6,618	6,727	180.63	7,163	10,310
180.12	6,628	6,793	180.64	7,174	10,381
180.13	6,638	6,859	180.65	7,185	10,453
180.14	6,649	6,926	180.66	7,195	10,525
180.15	6,660	6,992	180.67	7,205	10,597
180.16	6,670	7,059	180.68	7,216	10,669
180.17	6,680	7,126	180.69	7,226	10,741
180.18	6,691	7,192	180.70	7,237	10,814
180.19	6,701	7,259	180.71	7,248	10,886
180.20	6,712	7,326	180.72	7,258	10,959
180.21	6,723	7,394	180.73	7,268	11,031
180.22	6,733	7,461	180.74	7,279	11,104
180.23	6,743	7,528	180.75	7,290	11,177
180.24	6,754	7,596	180.76	7,300	11,250
180.25	6,765	7,663	180.77	7,311	11,323
180.26	6,775	7,731	180.78	7,321	11,396
180.27	6,786	7,799	180.79	7,331	11,469
180.28	6,796	7,867	180.80	7,342	11,543
180.29	6,806	7,935	180.81	7,353	11,616
180.30	6,817	8,003	180.82	7,363	11,690
180.31	6,828	8,071	180.83	7,374	11,763
180.32	6,838	8,139	180.84	7,384	11,837
180.33	6,849	8,208	180.85	7,394	11,911
180.34	6,859	8,276	180.86	7,405	11,985
180.35	6,869	8,345	180.87	7,416	12,059
180.36	6,880	8,414	180.88	7,426	12,133
180.37	6,891	8,483	180.89	7,436	12,208
180.38	6,901	8,552	180.90	7,447	12,282
180.39	6,911	8,621	180.91	7,457	12,357
180.40	6,922	8,690	180.92	7,468	12,431
180.41	6,932	8,759	180.93	7,479	12,506
180.42	6,943	8,828	180.94	7,489	12,581
180.43	6,954	8,898	180.95	7,499	12,656
180.44	6,964	8,968	180.96	7,510	12,731
180.45	6,974	9,037	180.97	7,520	12,806
180.46	6,985	9,107	180.98	7,531	12,881
180.47	6,995	9,177	180.99	7,542	12,957
180.48	7,006	9,247	181.00	7,552	13,032
180.49	7,017	9,317	181.01	7,563	13,108
180.50	7,027	9,387	181.02	7,574	13,183
180.51	7,037	9,458	181.03	7,585	13,259
180.52	7,048	9,528	181.04	7,596	13,335
180.53	7,059	9,599	181.05	7,607	13,411
180.54	7,069	9,669	181.06	7,618	13,487
180.55	7,080	9,740	181.07	7,629	13,563

Stage-Area-Storage for Pond B-17A: Basin #17A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
181.08	7,640	13,640	181.60	8,216	17,762
181.09	7,652	13,716	181.61	8,227	17,844
181.10	7,663	13,793	181.62	8,238	17,927
181.11	7,674	13,869	181.63	8,249	18,009
181.12	7,685	13,946	181.64	8,260	18,092
181.13	7,696	14,023	181.65	8,271	18,174
181.14	7,707	14,100	181.66	8,282	18,257
181.15	7,718	14,177	181.67	8,293	18,340
181.16	7,729	14,254	181.68	8,304	18,423
181.17	7,740	14,332	181.69	8,315	18,506
181.18	7,751	14,409	181.70	8,326	18,589
181.19	7,762	14,487	181.71	8,337	18,673
181.20	7,773	14,565	181.72	8,348	18,756
181.21	7,784	14,642	181.73	8,359	18,840
181.22	7,795	14,720	181.74	8,370	18,923
181.23	7,806	14,798	181.75	8,382	19,007
181.24	7,817	14,876	181.76	8,393	19,091
181.25	7,829	14,955	181.77	8,404	19,175
181.26	7,840	15,033	181.78	8,415	19,259
181.27	7,851	15,111	181.79	8,426	19,343
181.28	7,862	15,190	181.80	8,437	19,428
181.29	7,873	15,269	181.81	8,448	19,512
181.30	7,884	15,347	181.82	8,459	19,596
181.31	7,895	15,426	181.83	8,470	19,681
181.32	7,906	15,505	181.84	8,481	19,766
181.33	7,917	15,584	181.85	8,492	19,851
181.34	7,928	15,664	181.86	8,503	19,936
181.35	7,939	15,743	181.87	8,514	20,021
181.36	7,950	15,822	181.88	8,525	20,106
181.37	7,961	15,902	181.89	8,536	20,191
181.38	7,972	15,982	181.90	8,547	20,277
181.39	7,983	16,061	181.91	8,558	20,362
181.40	7,994	16,141	181.92	8,570	20,448
181.41	8,005	16,221	181.93	8,581	20,534
181.42	8,017	16,301	181.94	8,592	20,620
181.43	8,028	16,382	181.95	8,603	20,705
181.44	8,039	16,462	181.96	8,614	20,792
181.45	8,050	16,542	181.97	8,625	20,878
181.46	8,061	16,623	181.98	8,636	20,964
181.47	8,072	16,704	181.99	8,647	21,050
181.48	8,083	16,784	182.00	8,658	21,137
181.49	8,094	16,865	182.01	8,670	21,224
181.50	8,105	16,946	182.02	8,681	21,310
181.51	8,116	17,027	182.03	8,693	21,397
181.52	8,127	17,109	182.04	8,705	21,484
181.53	8,138	17,190	182.05	8,716	21,571
181.54	8,149	17,271	182.06	8,728	21,659
181.55	8,160	17,353	182.07	8,739	21,746
181.56	8,171	17,435	182.08	8,751	21,833
181.57	8,182	17,516	182.09	8,763	21,921
181.58	8,193	17,598	182.10	8,774	22,009
181.59	8,205	17,680	182.11	8,786	22,096

Stage-Area-Storage for Pond B-17A: Basin #17A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
182.12	8,798	22,184	182.64	9,402	26,916
182.13	8,809	22,272	182.65	9,414	27,010
182.14	8,821	22,361	182.66	9,426	27,105
182.15	8,832	22,449	182.67	9,437	27,199
182.16	8,844	22,537	182.68	9,449	27,293
182.17	8,856	22,626	182.69	9,460	27,388
182.18	8,867	22,714	182.70	9,472	27,483
182.19	8,879	22,803	182.71	9,484	27,577
182.20	8,891	22,892	182.72	9,495	27,672
182.21	8,902	22,981	182.73	9,507	27,767
182.22	8,914	23,070	182.74	9,519	27,862
182.23	8,925	23,159	182.75	9,530	27,958
182.24	8,937	23,248	182.76	9,542	28,053
182.25	8,949	23,338	182.77	9,554	28,148
182.26	8,960	23,427	182.78	9,565	28,244
182.27	8,972	23,517	182.79	9,577	28,340
182.28	8,984	23,607	182.80	9,588	28,436
182.29	8,995	23,697	182.81	9,600	28,532
182.30	9,007	23,787	182.82	9,612	28,628
182.31	9,019	23,877	182.83	9,623	28,724
182.32	9,030	23,967	182.84	9,635	28,820
182.33	9,042	24,057	182.85	9,647	28,916
182.34	9,053	24,148	182.86	9,658	29,013
182.35	9,065	24,239	182.87	9,670	29,110
182.36	9,077	24,329	182.88	9,681	29,206
182.37	9,088	24,420	182.89	9,693	29,303
182.38	9,100	24,511	182.90	9,705	29,400
182.39	9,112	24,602	182.91	9,716	29,497
182.40	9,123	24,693	182.92	9,728	29,595
182.41	9,135	24,785	182.93	9,740	29,692
182.42	9,146	24,876	182.94	9,751	29,789
182.43	9,158	24,967	182.95	9,763	29,887
182.44	9,170	25,059	182.96	9,774	29,985
182.45	9,181	25,151	182.97	9,786	30,082
182.46	9,193	25,243	182.98	9,798	30,180
182.47	9,205	25,335	182.99	9,809	30,278
182.48	9,216	25,427	183.00	9,821	30,377
182.49	9,228	25,519			
182.50	9,240	25,611			
182.51	9,251	25,704			
182.52	9,263	25,796			
182.53	9,274	25,889			
182.54	9,286	25,982			
182.55	9,298	26,075			
182.56	9,309	26,168			
182.57	9,321	26,261			
182.58	9,333	26,354			
182.59	9,344	26,448			
182.60	9,356	26,541			
182.61	9,367	26,635			
182.62	9,379	26,728			
182.63	9,391	26,822			

Summary for Pond B-17B: Basin #17B

Inflow Area = 1.385 ac, 37.11% Impervious, Inflow Depth = 6.53" for Current 100 yr event
 Inflow = 9.24 cfs @ 12.17 hrs, Volume= 0.754 af
 Outflow = 6.28 cfs @ 12.28 hrs, Volume= 0.681 af, Atten= 32%, Lag= 6.3 min
 Primary = 6.28 cfs @ 12.28 hrs, Volume= 0.681 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 180.47' @ 12.28 hrs Surf.Area= 8,620 sf Storage= 11,398 cf

Plug-Flow detention time= 222.7 min calculated for 0.680 af (90% of inflow)
 Center-of-Mass det. time= 173.7 min (958.0 - 784.3)

Volume	Invert	Avail.Storage	Storage Description
#1	179.00'	37,242 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
179.00	6,855	0	0
180.00	8,033	7,444	7,444
181.00	9,268	8,651	16,095
182.00	10,560	9,914	26,009
183.00	11,907	11,234	37,242

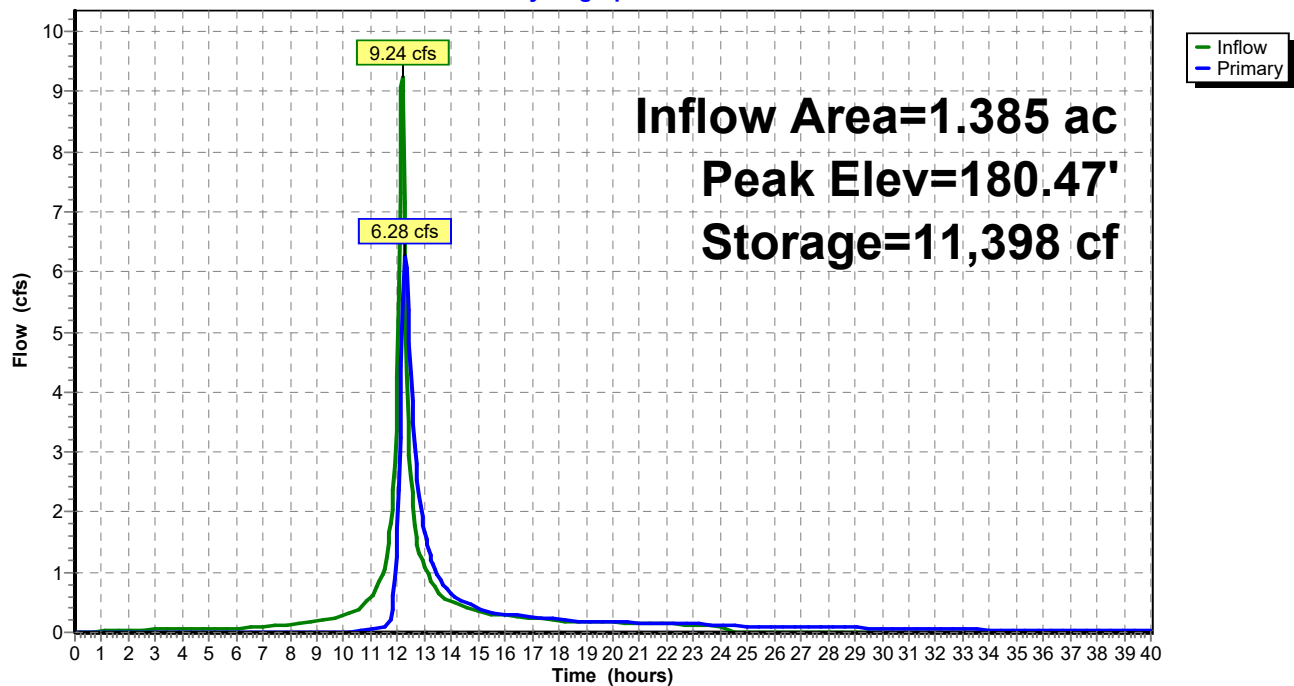
Device	Routing	Invert	Outlet Devices
#1	Primary	177.65'	18.0" Round Culvert L= 40.0' Ke= 0.500 Inlet / Outlet Invert= 177.65' / 177.00' S= 0.0163 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	179.35'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	179.86'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	181.95'	50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=6.23 cfs @ 12.28 hrs HW=180.47' (Free Discharge)

1=Culvert (Passes 6.23 cfs of 12.25 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.17 cfs @ 4.86 fps)
 3=Sharp-Crested Rectangular Weir (Weir Controls 6.07 cfs @ 2.56 fps)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-17B: Basin #17B

Hydrograph



Stage-Discharge for Pond B-17B: Basin #17B

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
179.00	0.00	179.52	0.04	180.04	1.12	180.56	7.56
179.01	0.00	179.53	0.05	180.05	1.20	180.57	7.72
179.02	0.00	179.54	0.05	180.06	1.29	180.58	7.88
179.03	0.00	179.55	0.05	180.07	1.37	180.59	8.04
179.04	0.00	179.56	0.05	180.08	1.46	180.60	8.19
179.05	0.00	179.57	0.06	180.09	1.56	180.61	8.35
179.06	0.00	179.58	0.06	180.10	1.65	180.62	8.51
179.07	0.00	179.59	0.06	180.11	1.75	180.63	8.68
179.08	0.00	179.60	0.06	180.12	1.85	180.64	8.84
179.09	0.00	179.61	0.06	180.13	1.95	180.65	9.00
179.10	0.00	179.62	0.07	180.14	2.05	180.66	9.17
179.11	0.00	179.63	0.07	180.15	2.15	180.67	9.33
179.12	0.00	179.64	0.07	180.16	2.25	180.68	9.50
179.13	0.00	179.65	0.07	180.17	2.36	180.69	9.66
179.14	0.00	179.66	0.07	180.18	2.47	180.70	9.83
179.15	0.00	179.67	0.08	180.19	2.58	180.71	10.00
179.16	0.00	179.68	0.08	180.20	2.69	180.72	10.17
179.17	0.00	179.69	0.08	180.21	2.80	180.73	10.34
179.18	0.00	179.70	0.08	180.22	2.92	180.74	10.51
179.19	0.00	179.71	0.08	180.23	3.03	180.75	10.68
179.20	0.00	179.72	0.08	180.24	3.15	180.76	10.85
179.21	0.00	179.73	0.09	180.25	3.27	180.77	11.03
179.22	0.00	179.74	0.09	180.26	3.39	180.78	11.20
179.23	0.00	179.75	0.09	180.27	3.51	180.79	11.38
179.24	0.00	179.76	0.09	180.28	3.63	180.80	11.55
179.25	0.00	179.77	0.09	180.29	3.76	180.81	11.73
179.26	0.00	179.78	0.09	180.30	3.88	180.82	11.90
179.27	0.00	179.79	0.10	180.31	4.01	180.83	12.08
179.28	0.00	179.80	0.10	180.32	4.14	180.84	12.26
179.29	0.00	179.81	0.10	180.33	4.27	180.85	12.44
179.30	0.00	179.82	0.10	180.34	4.40	180.86	12.62
179.31	0.00	179.83	0.10	180.35	4.53	180.87	12.80
179.32	0.00	179.84	0.10	180.36	4.67	180.88	12.98
179.33	0.00	179.85	0.10	180.37	4.80	180.89	13.17
179.34	0.00	179.86	0.10	180.38	4.94	180.90	13.35
179.35	0.00	179.87	0.12	180.39	5.07	180.91	13.48
179.36	0.00	179.88	0.14	180.40	5.21	180.92	13.51
179.37	0.00	179.89	0.18	180.41	5.35	180.93	13.53
179.38	0.00	179.90	0.21	180.42	5.49	180.94	13.56
179.39	0.00	179.91	0.26	180.43	5.63	180.95	13.59
179.40	0.00	179.92	0.30	180.44	5.77	180.96	13.61
179.41	0.01	179.93	0.35	180.45	5.92	180.97	13.64
179.42	0.01	179.94	0.41	180.46	6.06	180.98	13.67
179.43	0.01	179.95	0.47	180.47	6.21	180.99	13.69
179.44	0.01	179.96	0.53	180.48	6.35	181.00	13.72
179.45	0.02	179.97	0.59	180.49	6.50	181.01	13.75
179.46	0.02	179.98	0.66	180.50	6.65	181.02	13.77
179.47	0.02	179.99	0.73	180.51	6.80	181.03	13.80
179.48	0.03	180.00	0.80	180.52	6.95	181.04	13.83
179.49	0.03	180.01	0.88	180.53	7.10	181.05	13.85
179.50	0.03	180.02	0.95	180.54	7.26	181.06	13.88
179.51	0.04	180.03	1.03	180.55	7.41	181.07	13.90

Stage-Discharge for Pond B-17B: Basin #17B (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
181.08	13.93	181.60	15.22	182.12	24.68	182.64	97.19
181.09	13.96	181.61	15.24	182.13	25.45	182.65	98.96
181.10	13.98	181.62	15.27	182.14	26.23	182.66	100.74
181.11	14.01	181.63	15.29	182.15	27.04	182.67	102.53
181.12	14.03	181.64	15.32	182.16	27.91	182.68	104.34
181.13	14.06	181.65	15.34	182.17	28.81	182.69	106.15
181.14	14.08	181.66	15.36	182.18	29.72	182.70	107.98
181.15	14.11	181.67	15.39	182.19	30.67	182.71	109.82
181.16	14.14	181.68	15.41	182.20	31.64	182.72	111.68
181.17	14.16	181.69	15.43	182.21	32.64	182.73	113.54
181.18	14.19	181.70	15.46	182.22	33.66	182.74	115.42
181.19	14.21	181.71	15.48	182.23	34.70	182.75	117.31
181.20	14.24	181.72	15.50	182.24	35.77	182.76	119.25
181.21	14.26	181.73	15.53	182.25	36.86	182.77	121.20
181.22	14.29	181.74	15.55	182.26	37.98	182.78	123.17
181.23	14.31	181.75	15.57	182.27	39.13	182.79	125.15
181.24	14.34	181.76	15.60	182.28	40.29	182.80	127.14
181.25	14.36	181.77	15.62	182.29	41.48	182.81	129.15
181.26	14.39	181.78	15.64	182.30	42.70	182.82	131.17
181.27	14.41	181.79	15.67	182.31	43.94	182.83	133.20
181.28	14.44	181.80	15.69	182.32	45.20	182.84	135.25
181.29	14.46	181.81	15.71	182.33	46.49	182.85	137.30
181.30	14.49	181.82	15.74	182.34	47.80	182.86	139.37
181.31	14.51	181.83	15.76	182.35	49.14	182.87	141.46
181.32	14.54	181.84	15.78	182.36	50.53	182.88	143.55
181.33	14.56	181.85	15.80	182.37	51.94	182.89	145.66
181.34	14.59	181.86	15.83	182.38	53.38	182.90	147.78
181.35	14.61	181.87	15.85	182.39	54.85	182.91	149.92
181.36	14.64	181.88	15.87	182.40	56.34	182.92	152.07
181.37	14.66	181.89	15.90	182.41	57.85	182.93	154.23
181.38	14.69	181.90	15.92	182.42	59.40	182.94	156.40
181.39	14.71	181.91	15.94	182.43	60.97	182.95	158.58
181.40	14.74	181.92	15.96	182.44	62.57	182.96	160.73
181.41	14.76	181.93	15.99	182.45	64.19	182.97	162.88
181.42	14.79	181.94	16.01	182.46	65.84	182.98	165.05
181.43	14.81	181.95	16.03	182.47	67.51	182.99	167.22
181.44	14.84	181.96	16.17	182.48	69.22	183.00	169.41
181.45	14.86	181.97	16.41	182.49	70.95		
181.46	14.88	181.98	16.71	182.50	72.70		
181.47	14.91	181.99	17.06	182.51	74.48		
181.48	14.93	182.00	17.46	182.52	76.29		
181.49	14.96	182.01	17.89	182.53	78.13		
181.50	14.98	182.02	18.36	182.54	79.99		
181.51	15.01	182.03	18.87	182.55	81.88		
181.52	15.03	182.04	19.41	182.56	83.53		
181.53	15.05	182.05	19.97	182.57	85.19		
181.54	15.08	182.06	20.57	182.58	86.87		
181.55	15.10	182.07	21.19	182.59	88.55		
181.56	15.13	182.08	21.84	182.60	90.26		
181.57	15.15	182.09	22.51	182.61	91.97		
181.58	15.17	182.10	23.21	182.62	93.70		
181.59	15.20	182.11	23.93	182.63	95.44		

Stage-Area-Storage for Pond B-17B: Basin #17B

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
179.00	6,855	0	179.52	7,468	3,724
179.01	6,867	69	179.53	7,479	3,799
179.02	6,879	137	179.54	7,491	3,873
179.03	6,890	206	179.55	7,503	3,948
179.04	6,902	275	179.56	7,515	4,024
179.05	6,914	344	179.57	7,526	4,099
179.06	6,926	413	179.58	7,538	4,174
179.07	6,937	483	179.59	7,550	4,249
179.08	6,949	552	179.60	7,562	4,325
179.09	6,961	622	179.61	7,574	4,401
179.10	6,973	691	179.62	7,585	4,477
179.11	6,985	761	179.63	7,597	4,552
179.12	6,996	831	179.64	7,609	4,628
179.13	7,008	901	179.65	7,621	4,705
179.14	7,020	971	179.66	7,632	4,781
179.15	7,032	1,042	179.67	7,644	4,857
179.16	7,043	1,112	179.68	7,656	4,934
179.17	7,055	1,182	179.69	7,668	5,010
179.18	7,067	1,253	179.70	7,680	5,087
179.19	7,079	1,324	179.71	7,691	5,164
179.20	7,091	1,395	179.72	7,703	5,241
179.21	7,102	1,466	179.73	7,715	5,318
179.22	7,114	1,537	179.74	7,727	5,395
179.23	7,126	1,608	179.75	7,739	5,473
179.24	7,138	1,679	179.76	7,750	5,550
179.25	7,150	1,751	179.77	7,762	5,628
179.26	7,161	1,822	179.78	7,774	5,705
179.27	7,173	1,894	179.79	7,786	5,783
179.28	7,185	1,966	179.80	7,797	5,861
179.29	7,197	2,037	179.81	7,809	5,939
179.30	7,208	2,110	179.82	7,821	6,017
179.31	7,220	2,182	179.83	7,833	6,095
179.32	7,232	2,254	179.84	7,845	6,174
179.33	7,244	2,326	179.85	7,856	6,252
179.34	7,256	2,399	179.86	7,868	6,331
179.35	7,267	2,471	179.87	7,880	6,410
179.36	7,279	2,544	179.88	7,892	6,489
179.37	7,291	2,617	179.89	7,903	6,567
179.38	7,303	2,690	179.90	7,915	6,647
179.39	7,314	2,763	179.91	7,927	6,726
179.40	7,326	2,836	179.92	7,939	6,805
179.41	7,338	2,910	179.93	7,951	6,885
179.42	7,350	2,983	179.94	7,962	6,964
179.43	7,362	3,057	179.95	7,974	7,044
179.44	7,373	3,130	179.96	7,986	7,124
179.45	7,385	3,204	179.97	7,998	7,204
179.46	7,397	3,278	179.98	8,009	7,284
179.47	7,409	3,352	179.99	8,021	7,364
179.48	7,420	3,426	180.00	8,033	7,444
179.49	7,432	3,500	180.01	8,045	7,524
179.50	7,444	3,575	180.02	8,058	7,605
179.51	7,456	3,649	180.03	8,070	7,686

Stage-Area-Storage for Pond B-17B: Basin #17B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
180.04	8,082	7,766	180.56	8,725	12,136
180.05	8,095	7,847	180.57	8,737	12,223
180.06	8,107	7,928	180.58	8,749	12,311
180.07	8,119	8,009	180.59	8,762	12,398
180.08	8,132	8,091	180.60	8,774	12,486
180.09	8,144	8,172	180.61	8,786	12,574
180.10	8,156	8,253	180.62	8,799	12,662
180.11	8,169	8,335	180.63	8,811	12,750
180.12	8,181	8,417	180.64	8,823	12,838
180.13	8,194	8,499	180.65	8,836	12,926
180.14	8,206	8,581	180.66	8,848	13,015
180.15	8,218	8,663	180.67	8,860	13,103
180.16	8,231	8,745	180.68	8,873	13,192
180.17	8,243	8,827	180.69	8,885	13,281
180.18	8,255	8,910	180.70	8,897	13,370
180.19	8,268	8,993	180.71	8,910	13,459
180.20	8,280	9,075	180.72	8,922	13,548
180.21	8,292	9,158	180.73	8,935	13,637
180.22	8,305	9,241	180.74	8,947	13,727
180.23	8,317	9,324	180.75	8,959	13,816
180.24	8,329	9,407	180.76	8,972	13,906
180.25	8,342	9,491	180.77	8,984	13,996
180.26	8,354	9,574	180.78	8,996	14,085
180.27	8,366	9,658	180.79	9,009	14,175
180.28	8,379	9,742	180.80	9,021	14,266
180.29	8,391	9,826	180.81	9,033	14,356
180.30	8,404	9,909	180.82	9,046	14,446
180.31	8,416	9,994	180.83	9,058	14,537
180.32	8,428	10,078	180.84	9,070	14,627
180.33	8,441	10,162	180.85	9,083	14,718
180.34	8,453	10,247	180.86	9,095	14,809
180.35	8,465	10,331	180.87	9,107	14,900
180.36	8,478	10,416	180.88	9,120	14,991
180.37	8,490	10,501	180.89	9,132	15,082
180.38	8,502	10,586	180.90	9,145	15,174
180.39	8,515	10,671	180.91	9,157	15,265
180.40	8,527	10,756	180.92	9,169	15,357
180.41	8,539	10,841	180.93	9,182	15,449
180.42	8,552	10,927	180.94	9,194	15,541
180.43	8,564	11,012	180.95	9,206	15,633
180.44	8,576	11,098	180.96	9,219	15,725
180.45	8,589	11,184	180.97	9,231	15,817
180.46	8,601	11,270	180.98	9,243	15,909
180.47	8,613	11,356	180.99	9,256	16,002
180.48	8,626	11,442	181.00	9,268	16,095
180.49	8,638	11,528	181.01	9,281	16,187
180.50	8,651	11,615	181.02	9,294	16,280
180.51	8,663	11,701	181.03	9,307	16,373
180.52	8,675	11,788	181.04	9,320	16,466
180.53	8,688	11,875	181.05	9,333	16,560
180.54	8,700	11,962	181.06	9,346	16,653
180.55	8,712	12,049	181.07	9,358	16,746

Stage-Area-Storage for Pond B-17B: Basin #17B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
181.08	9,371	16,840	181.60	10,043	21,888
181.09	9,384	16,934	181.61	10,056	21,988
181.10	9,397	17,028	181.62	10,069	22,089
181.11	9,410	17,122	181.63	10,082	22,190
181.12	9,423	17,216	181.64	10,095	22,291
181.13	9,436	17,310	181.65	10,108	22,392
181.14	9,449	17,405	181.66	10,121	22,493
181.15	9,462	17,499	181.67	10,134	22,594
181.16	9,475	17,594	181.68	10,147	22,695
181.17	9,488	17,689	181.69	10,159	22,797
181.18	9,501	17,784	181.70	10,172	22,899
181.19	9,513	17,879	181.71	10,185	23,000
181.20	9,526	17,974	181.72	10,198	23,102
181.21	9,539	18,069	181.73	10,211	23,204
181.22	9,552	18,165	181.74	10,224	23,307
181.23	9,565	18,260	181.75	10,237	23,409
181.24	9,578	18,356	181.76	10,250	23,511
181.25	9,591	18,452	181.77	10,263	23,614
181.26	9,604	18,548	181.78	10,276	23,717
181.27	9,617	18,644	181.79	10,289	23,819
181.28	9,630	18,740	181.80	10,302	23,922
181.29	9,643	18,837	181.81	10,315	24,025
181.30	9,656	18,933	181.82	10,327	24,129
181.31	9,669	19,030	181.83	10,340	24,232
181.32	9,681	19,126	181.84	10,353	24,335
181.33	9,694	19,223	181.85	10,366	24,439
181.34	9,707	19,320	181.86	10,379	24,543
181.35	9,720	19,417	181.87	10,392	24,647
181.36	9,733	19,515	181.88	10,405	24,751
181.37	9,746	19,612	181.89	10,418	24,855
181.38	9,759	19,710	181.90	10,431	24,959
181.39	9,772	19,807	181.91	10,444	25,063
181.40	9,785	19,905	181.92	10,457	25,168
181.41	9,798	20,003	181.93	10,470	25,272
181.42	9,811	20,101	181.94	10,482	25,377
181.43	9,824	20,199	181.95	10,495	25,482
181.44	9,836	20,297	181.96	10,508	25,587
181.45	9,849	20,396	181.97	10,521	25,692
181.46	9,862	20,494	181.98	10,534	25,798
181.47	9,875	20,593	181.99	10,547	25,903
181.48	9,888	20,692	182.00	10,560	26,009
181.49	9,901	20,791	182.01	10,573	26,114
181.50	9,914	20,890	182.02	10,587	26,220
181.51	9,927	20,989	182.03	10,600	26,326
181.52	9,940	21,089	182.04	10,614	26,432
181.53	9,953	21,188	182.05	10,627	26,538
181.54	9,966	21,288	182.06	10,641	26,645
181.55	9,979	21,387	182.07	10,654	26,751
181.56	9,992	21,487	182.08	10,668	26,858
181.57	10,004	21,587	182.09	10,681	26,964
181.58	10,017	21,687	182.10	10,695	27,071
181.59	10,030	21,787	182.11	10,708	27,178

Stage-Area-Storage for Pond B-17B: Basin #17B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
182.12	10,722	27,285	182.64	11,422	33,043
182.13	10,735	27,393	182.65	11,436	33,157
182.14	10,749	27,500	182.66	11,449	33,271
182.15	10,762	27,608	182.67	11,462	33,386
182.16	10,776	27,715	182.68	11,476	33,501
182.17	10,789	27,823	182.69	11,489	33,616
182.18	10,802	27,931	182.70	11,503	33,731
182.19	10,816	28,039	182.71	11,516	33,846
182.20	10,829	28,147	182.72	11,530	33,961
182.21	10,843	28,256	182.73	11,543	34,076
182.22	10,856	28,364	182.74	11,557	34,192
182.23	10,870	28,473	182.75	11,570	34,307
182.24	10,883	28,582	182.76	11,584	34,423
182.25	10,897	28,691	182.77	11,597	34,539
182.26	10,910	28,800	182.78	11,611	34,655
182.27	10,924	28,909	182.79	11,624	34,771
182.28	10,937	29,018	182.80	11,638	34,888
182.29	10,951	29,128	182.81	11,651	35,004
182.30	10,964	29,237	182.82	11,665	35,121
182.31	10,978	29,347	182.83	11,678	35,237
182.32	10,991	29,457	182.84	11,691	35,354
182.33	11,005	29,567	182.85	11,705	35,471
182.34	11,018	29,677	182.86	11,718	35,588
182.35	11,031	29,787	182.87	11,732	35,705
182.36	11,045	29,897	182.88	11,745	35,823
182.37	11,058	30,008	182.89	11,759	35,940
182.38	11,072	30,119	182.90	11,772	36,058
182.39	11,085	30,229	182.91	11,786	36,176
182.40	11,099	30,340	182.92	11,799	36,294
182.41	11,112	30,451	182.93	11,813	36,412
182.42	11,126	30,563	182.94	11,826	36,530
182.43	11,139	30,674	182.95	11,840	36,648
182.44	11,153	30,785	182.96	11,853	36,767
182.45	11,166	30,897	182.97	11,867	36,885
182.46	11,180	31,009	182.98	11,880	37,004
182.47	11,193	31,120	182.99	11,894	37,123
182.48	11,207	31,232	183.00	11,907	37,242
182.49	11,220	31,345			
182.50	11,234	31,457			
182.51	11,247	31,569			
182.52	11,260	31,682			
182.53	11,274	31,794			
182.54	11,287	31,907			
182.55	11,301	32,020			
182.56	11,314	32,133			
182.57	11,328	32,247			
182.58	11,341	32,360			
182.59	11,355	32,473			
182.60	11,368	32,587			
182.61	11,382	32,701			
182.62	11,395	32,815			
182.63	11,409	32,929			

Summary for Pond B-2: Basin #2

Inflow Area = 1.894 ac, 38.23% Impervious, Inflow Depth = 6.56" for Current 100 yr event
 Inflow = 12.68 cfs @ 12.17 hrs, Volume= 1.036 af
 Outflow = 4.13 cfs @ 12.46 hrs, Volume= 0.477 af, Atten= 67%, Lag= 17.5 min
 Primary = 4.13 cfs @ 12.46 hrs, Volume= 0.477 af
 Routed to Pond B-1 : Basin #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 211.61' @ 12.46 hrs Surf.Area= 9,988 sf Storage= 25,378 cf

Plug-Flow detention time= 281.4 min calculated for 0.477 af (46% of inflow)
 Center-of-Mass det. time= 148.5 min (931.9 - 783.4)

Volume	Invert	Avail.Storage	Storage Description
#1	208.30'	29,385 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
208.30	0	0	0
209.00	7,501	2,625	2,625
210.00	8,431	7,966	10,591
211.00	9,390	8,911	19,502
212.00	10,376	9,883	29,385

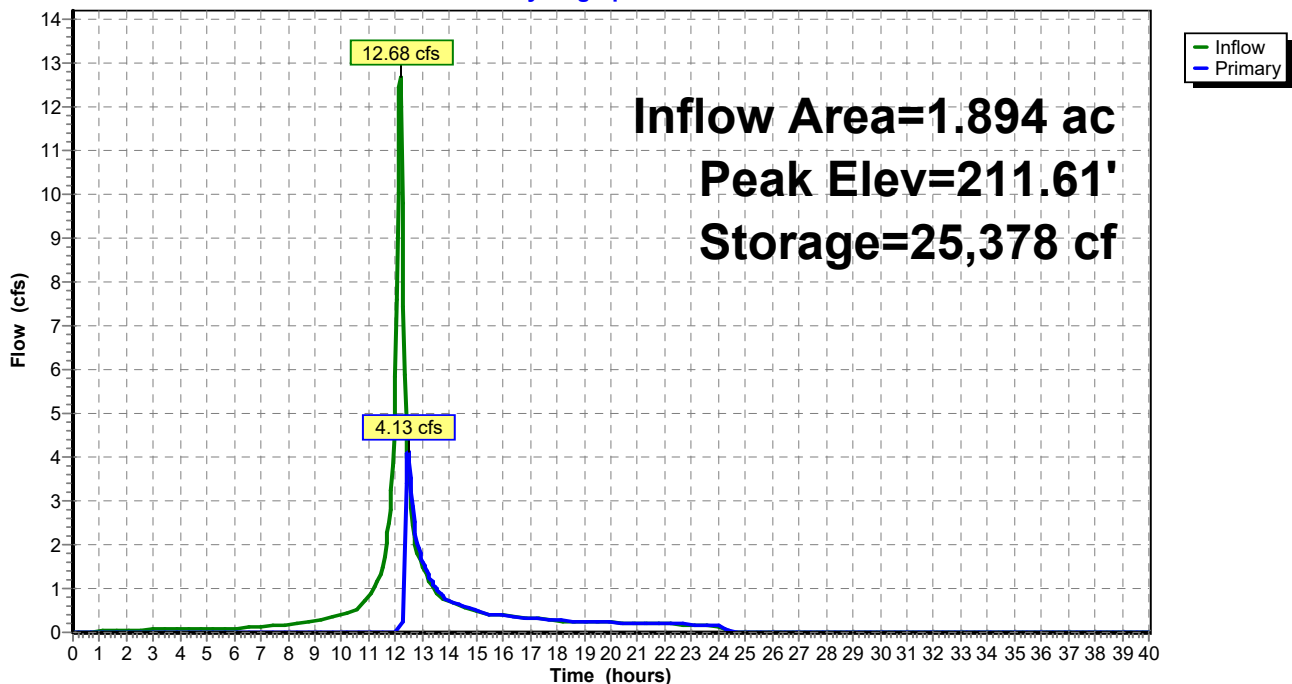
Device	Routing	Invert	Outlet Devices
#1	Primary	211.50'	50.0' long + 3.0 ' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=4.00 cfs @ 12.46 hrs HW=211.60' (Free Discharge)

↑ **1=Broad-Crested Rectangular Weir** (Weir Controls 4.00 cfs @ 0.76 fps)

Pond B-2: Basin #2

Hydrograph



Stage-Discharge for Pond B-2: Basin #2

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
208.30	0.00	208.82	0.00	209.34	0.00	209.86	0.00
208.31	0.00	208.83	0.00	209.35	0.00	209.87	0.00
208.32	0.00	208.84	0.00	209.36	0.00	209.88	0.00
208.33	0.00	208.85	0.00	209.37	0.00	209.89	0.00
208.34	0.00	208.86	0.00	209.38	0.00	209.90	0.00
208.35	0.00	208.87	0.00	209.39	0.00	209.91	0.00
208.36	0.00	208.88	0.00	209.40	0.00	209.92	0.00
208.37	0.00	208.89	0.00	209.41	0.00	209.93	0.00
208.38	0.00	208.90	0.00	209.42	0.00	209.94	0.00
208.39	0.00	208.91	0.00	209.43	0.00	209.95	0.00
208.40	0.00	208.92	0.00	209.44	0.00	209.96	0.00
208.41	0.00	208.93	0.00	209.45	0.00	209.97	0.00
208.42	0.00	208.94	0.00	209.46	0.00	209.98	0.00
208.43	0.00	208.95	0.00	209.47	0.00	209.99	0.00
208.44	0.00	208.96	0.00	209.48	0.00	210.00	0.00
208.45	0.00	208.97	0.00	209.49	0.00	210.01	0.00
208.46	0.00	208.98	0.00	209.50	0.00	210.02	0.00
208.47	0.00	208.99	0.00	209.51	0.00	210.03	0.00
208.48	0.00	209.00	0.00	209.52	0.00	210.04	0.00
208.49	0.00	209.01	0.00	209.53	0.00	210.05	0.00
208.50	0.00	209.02	0.00	209.54	0.00	210.06	0.00
208.51	0.00	209.03	0.00	209.55	0.00	210.07	0.00
208.52	0.00	209.04	0.00	209.56	0.00	210.08	0.00
208.53	0.00	209.05	0.00	209.57	0.00	210.09	0.00
208.54	0.00	209.06	0.00	209.58	0.00	210.10	0.00
208.55	0.00	209.07	0.00	209.59	0.00	210.11	0.00
208.56	0.00	209.08	0.00	209.60	0.00	210.12	0.00
208.57	0.00	209.09	0.00	209.61	0.00	210.13	0.00
208.58	0.00	209.10	0.00	209.62	0.00	210.14	0.00
208.59	0.00	209.11	0.00	209.63	0.00	210.15	0.00
208.60	0.00	209.12	0.00	209.64	0.00	210.16	0.00
208.61	0.00	209.13	0.00	209.65	0.00	210.17	0.00
208.62	0.00	209.14	0.00	209.66	0.00	210.18	0.00
208.63	0.00	209.15	0.00	209.67	0.00	210.19	0.00
208.64	0.00	209.16	0.00	209.68	0.00	210.20	0.00
208.65	0.00	209.17	0.00	209.69	0.00	210.21	0.00
208.66	0.00	209.18	0.00	209.70	0.00	210.22	0.00
208.67	0.00	209.19	0.00	209.71	0.00	210.23	0.00
208.68	0.00	209.20	0.00	209.72	0.00	210.24	0.00
208.69	0.00	209.21	0.00	209.73	0.00	210.25	0.00
208.70	0.00	209.22	0.00	209.74	0.00	210.26	0.00
208.71	0.00	209.23	0.00	209.75	0.00	210.27	0.00
208.72	0.00	209.24	0.00	209.76	0.00	210.28	0.00
208.73	0.00	209.25	0.00	209.77	0.00	210.29	0.00
208.74	0.00	209.26	0.00	209.78	0.00	210.30	0.00
208.75	0.00	209.27	0.00	209.79	0.00	210.31	0.00
208.76	0.00	209.28	0.00	209.80	0.00	210.32	0.00
208.77	0.00	209.29	0.00	209.81	0.00	210.33	0.00
208.78	0.00	209.30	0.00	209.82	0.00	210.34	0.00
208.79	0.00	209.31	0.00	209.83	0.00	210.35	0.00
208.80	0.00	209.32	0.00	209.84	0.00	210.36	0.00
208.81	0.00	209.33	0.00	209.85	0.00	210.37	0.00

Stage-Discharge for Pond B-2: Basin #2 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
210.38	0.00	210.90	0.00	211.42	0.00	211.94	37.85
210.39	0.00	210.91	0.00	211.43	0.00	211.95	39.32
210.40	0.00	210.92	0.00	211.44	0.00	211.96	40.82
210.41	0.00	210.93	0.00	211.45	0.00	211.97	42.34
210.42	0.00	210.94	0.00	211.46	0.00	211.98	43.89
210.43	0.00	210.95	0.00	211.47	0.00	211.99	45.46
210.44	0.00	210.96	0.00	211.48	0.00	212.00	47.07
210.45	0.00	210.97	0.00	211.49	0.00		
210.46	0.00	210.98	0.00	211.50	0.00		
210.47	0.00	210.99	0.00	211.51	0.12		
210.48	0.00	211.00	0.00	211.52	0.33		
210.49	0.00	211.01	0.00	211.53	0.61		
210.50	0.00	211.02	0.00	211.54	0.94		
210.51	0.00	211.03	0.00	211.55	1.31		
210.52	0.00	211.04	0.00	211.56	1.72		
210.53	0.00	211.05	0.00	211.57	2.17		
210.54	0.00	211.06	0.00	211.58	2.66		
210.55	0.00	211.07	0.00	211.59	3.17		
210.56	0.00	211.08	0.00	211.60	3.72		
210.57	0.00	211.09	0.00	211.61	4.29		
210.58	0.00	211.10	0.00	211.62	4.89		
210.59	0.00	211.11	0.00	211.63	5.52		
210.60	0.00	211.12	0.00	211.64	6.17		
210.61	0.00	211.13	0.00	211.65	6.85		
210.62	0.00	211.14	0.00	211.66	7.55		
210.63	0.00	211.15	0.00	211.67	8.27		
210.64	0.00	211.16	0.00	211.68	9.01		
210.65	0.00	211.17	0.00	211.69	9.78		
210.66	0.00	211.18	0.00	211.70	10.57		
210.67	0.00	211.19	0.00	211.71	11.41		
210.68	0.00	211.20	0.00	211.72	12.28		
210.69	0.00	211.21	0.00	211.73	13.18		
210.70	0.00	211.22	0.00	211.74	14.11		
210.71	0.00	211.23	0.00	211.75	15.05		
210.72	0.00	211.24	0.00	211.76	16.03		
210.73	0.00	211.25	0.00	211.77	17.03		
210.74	0.00	211.26	0.00	211.78	18.05		
210.75	0.00	211.27	0.00	211.79	19.10		
210.76	0.00	211.28	0.00	211.80	20.17		
210.77	0.00	211.29	0.00	211.81	21.27		
210.78	0.00	211.30	0.00	211.82	22.39		
210.79	0.00	211.31	0.00	211.83	23.53		
210.80	0.00	211.32	0.00	211.84	24.70		
210.81	0.00	211.33	0.00	211.85	25.90		
210.82	0.00	211.34	0.00	211.86	27.11		
210.83	0.00	211.35	0.00	211.87	28.36		
210.84	0.00	211.36	0.00	211.88	29.62		
210.85	0.00	211.37	0.00	211.89	30.92		
210.86	0.00	211.38	0.00	211.90	32.23		
210.87	0.00	211.39	0.00	211.91	33.60		
210.88	0.00	211.40	0.00	211.92	34.99		
210.89	0.00	211.41	0.00	211.93	36.41		

Stage-Area-Storage for Pond B-2: Basin #2

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
208.30	0	0	208.82	5,572	1,449
208.31	107	1	208.83	5,679	1,505
208.32	214	2	208.84	5,786	1,562
208.33	321	5	208.85	5,894	1,621
208.34	429	9	208.86	6,001	1,680
208.35	536	13	208.87	6,108	1,741
208.36	643	19	208.88	6,215	1,802
208.37	750	26	208.89	6,322	1,865
208.38	857	34	208.90	6,429	1,929
208.39	964	43	208.91	6,537	1,994
208.40	1,072	54	208.92	6,644	2,060
208.41	1,179	65	208.93	6,751	2,127
208.42	1,286	77	208.94	6,858	2,195
208.43	1,393	91	208.95	6,965	2,264
208.44	1,500	105	208.96	7,072	2,334
208.45	1,607	121	208.97	7,180	2,405
208.46	1,715	137	208.98	7,287	2,477
208.47	1,822	155	208.99	7,394	2,551
208.48	1,929	174	209.00	7,501	2,625
208.49	2,036	193	209.01	7,510	2,700
208.50	2,143	214	209.02	7,520	2,776
208.51	2,250	236	209.03	7,529	2,851
208.52	2,357	259	209.04	7,538	2,926
208.53	2,465	283	209.05	7,548	3,002
208.54	2,572	309	209.06	7,557	3,077
208.55	2,679	335	209.07	7,566	3,153
208.56	2,786	362	209.08	7,575	3,228
208.57	2,893	391	209.09	7,585	3,304
208.58	3,000	420	209.10	7,594	3,380
208.59	3,108	451	209.11	7,603	3,456
208.60	3,215	482	209.12	7,613	3,532
208.61	3,322	515	209.13	7,622	3,608
208.62	3,429	549	209.14	7,631	3,685
208.63	3,536	583	209.15	7,641	3,761
208.64	3,643	619	209.16	7,650	3,837
208.65	3,751	656	209.17	7,659	3,914
208.66	3,858	694	209.18	7,668	3,991
208.67	3,965	733	209.19	7,678	4,067
208.68	4,072	774	209.20	7,687	4,144
208.69	4,179	815	209.21	7,696	4,221
208.70	4,286	857	209.22	7,706	4,298
208.71	4,393	901	209.23	7,715	4,375
208.72	4,501	945	209.24	7,724	4,452
208.73	4,608	991	209.25	7,734	4,530
208.74	4,715	1,037	209.26	7,743	4,607
208.75	4,822	1,085	209.27	7,752	4,685
208.76	4,929	1,134	209.28	7,761	4,762
208.77	5,036	1,184	209.29	7,771	4,840
208.78	5,144	1,234	209.30	7,780	4,918
208.79	5,251	1,286	209.31	7,789	4,995
208.80	5,358	1,339	209.32	7,799	5,073
208.81	5,465	1,394	209.33	7,808	5,151

Stage-Area-Storage for Pond B-2: Basin #2 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
209.34	7,817	5,229	209.86	8,301	9,420
209.35	7,827	5,308	209.87	8,310	9,503
209.36	7,836	5,386	209.88	8,319	9,586
209.37	7,845	5,464	209.89	8,329	9,670
209.38	7,854	5,543	209.90	8,338	9,753
209.39	7,864	5,621	209.91	8,347	9,836
209.40	7,873	5,700	209.92	8,357	9,920
209.41	7,882	5,779	209.93	8,366	10,003
209.42	7,892	5,858	209.94	8,375	10,087
209.43	7,901	5,937	209.95	8,385	10,171
209.44	7,910	6,016	209.96	8,394	10,255
209.45	7,920	6,095	209.97	8,403	10,339
209.46	7,929	6,174	209.98	8,412	10,423
209.47	7,938	6,254	209.99	8,422	10,507
209.48	7,947	6,333	210.00	8,431	10,591
209.49	7,957	6,412	210.01	8,441	10,676
209.50	7,966	6,492	210.02	8,450	10,760
209.51	7,975	6,572	210.03	8,460	10,845
209.52	7,985	6,652	210.04	8,469	10,929
209.53	7,994	6,731	210.05	8,479	11,014
209.54	8,003	6,811	210.06	8,489	11,099
209.55	8,013	6,892	210.07	8,498	11,184
209.56	8,022	6,972	210.08	8,508	11,269
209.57	8,031	7,052	210.09	8,517	11,354
209.58	8,040	7,132	210.10	8,527	11,439
209.59	8,050	7,213	210.11	8,536	11,525
209.60	8,059	7,293	210.12	8,546	11,610
209.61	8,068	7,374	210.13	8,556	11,695
209.62	8,078	7,455	210.14	8,565	11,781
209.63	8,087	7,536	210.15	8,575	11,867
209.64	8,096	7,616	210.16	8,584	11,953
209.65	8,106	7,697	210.17	8,594	12,038
209.66	8,115	7,779	210.18	8,604	12,124
209.67	8,124	7,860	210.19	8,613	12,211
209.68	8,133	7,941	210.20	8,623	12,297
209.69	8,143	8,022	210.21	8,632	12,383
209.70	8,152	8,104	210.22	8,642	12,469
209.71	8,161	8,185	210.23	8,652	12,556
209.72	8,171	8,267	210.24	8,661	12,642
209.73	8,180	8,349	210.25	8,671	12,729
209.74	8,189	8,431	210.26	8,680	12,816
209.75	8,199	8,513	210.27	8,690	12,903
209.76	8,208	8,595	210.28	8,700	12,990
209.77	8,217	8,677	210.29	8,709	13,077
209.78	8,226	8,759	210.30	8,719	13,164
209.79	8,236	8,841	210.31	8,728	13,251
209.80	8,245	8,924	210.32	8,738	13,338
209.81	8,254	9,006	210.33	8,747	13,426
209.82	8,264	9,089	210.34	8,757	13,513
209.83	8,273	9,172	210.35	8,767	13,601
209.84	8,282	9,254	210.36	8,776	13,689
209.85	8,292	9,337	210.37	8,786	13,776

Stage-Area-Storage for Pond B-2: Basin #2 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
210.38	8,795	13,864	210.90	9,294	18,568
210.39	8,805	13,952	210.91	9,304	18,661
210.40	8,815	14,040	210.92	9,313	18,754
210.41	8,824	14,129	210.93	9,323	18,847
210.42	8,834	14,217	210.94	9,332	18,940
210.43	8,843	14,305	210.95	9,342	19,034
210.44	8,853	14,394	210.96	9,352	19,127
210.45	8,863	14,482	210.97	9,361	19,221
210.46	8,872	14,571	210.98	9,371	19,314
210.47	8,882	14,660	210.99	9,380	19,408
210.48	8,891	14,749	211.00	9,390	19,502
210.49	8,901	14,838	211.01	9,400	19,596
210.50	8,911	14,927	211.02	9,410	19,690
210.51	8,920	15,016	211.03	9,420	19,784
210.52	8,930	15,105	211.04	9,429	19,878
210.53	8,939	15,194	211.05	9,439	19,973
210.54	8,949	15,284	211.06	9,449	20,067
210.55	8,958	15,373	211.07	9,459	20,162
210.56	8,968	15,463	211.08	9,469	20,256
210.57	8,978	15,553	211.09	9,479	20,351
210.58	8,987	15,643	211.10	9,489	20,446
210.59	8,997	15,733	211.11	9,498	20,541
210.60	9,006	15,823	211.12	9,508	20,636
210.61	9,016	15,913	211.13	9,518	20,731
210.62	9,026	16,003	211.14	9,528	20,826
210.63	9,035	16,093	211.15	9,538	20,921
210.64	9,045	16,184	211.16	9,548	21,017
210.65	9,054	16,274	211.17	9,558	21,112
210.66	9,064	16,365	211.18	9,567	21,208
210.67	9,074	16,455	211.19	9,577	21,304
210.68	9,083	16,546	211.20	9,587	21,400
210.69	9,093	16,637	211.21	9,597	21,495
210.70	9,102	16,728	211.22	9,607	21,592
210.71	9,112	16,819	211.23	9,617	21,688
210.72	9,121	16,910	211.24	9,627	21,784
210.73	9,131	17,002	211.25	9,637	21,880
210.74	9,141	17,093	211.26	9,646	21,977
210.75	9,150	17,184	211.27	9,656	22,073
210.76	9,160	17,276	211.28	9,666	22,170
210.77	9,169	17,368	211.29	9,676	22,266
210.78	9,179	17,459	211.30	9,686	22,363
210.79	9,189	17,551	211.31	9,696	22,460
210.80	9,198	17,643	211.32	9,706	22,557
210.81	9,208	17,735	211.33	9,715	22,654
210.82	9,217	17,827	211.34	9,725	22,751
210.83	9,227	17,919	211.35	9,735	22,849
210.84	9,237	18,012	211.36	9,745	22,946
210.85	9,246	18,104	211.37	9,755	23,044
210.86	9,256	18,197	211.38	9,765	23,141
210.87	9,265	18,289	211.39	9,775	23,239
210.88	9,275	18,382	211.40	9,784	23,337
210.89	9,285	18,475	211.41	9,794	23,435

Stage-Area-Storage for Pond B-2: Basin #2 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
211.42	9,804	23,533	211.94	10,317	28,764
211.43	9,814	23,631	211.95	10,327	28,867
211.44	9,824	23,729	211.96	10,337	28,971
211.45	9,834	23,827	211.97	10,346	29,074
211.46	9,844	23,926	211.98	10,356	29,178
211.47	9,853	24,024	211.99	10,366	29,281
211.48	9,863	24,123	212.00	10,376	29,385
211.49	9,873	24,221			
211.50	9,883	24,320			
211.51	9,893	24,419			
211.52	9,903	24,518			
211.53	9,913	24,617			
211.54	9,922	24,716			
211.55	9,932	24,815			
211.56	9,942	24,915			
211.57	9,952	25,014			
211.58	9,962	25,114			
211.59	9,972	25,214			
211.60	9,982	25,313			
211.61	9,991	25,413			
211.62	10,001	25,513			
211.63	10,011	25,613			
211.64	10,021	25,713			
211.65	10,031	25,814			
211.66	10,041	25,914			
211.67	10,051	26,014			
211.68	10,060	26,115			
211.69	10,070	26,216			
211.70	10,080	26,316			
211.71	10,090	26,417			
211.72	10,100	26,518			
211.73	10,110	26,619			
211.74	10,120	26,720			
211.75	10,130	26,822			
211.76	10,139	26,923			
211.77	10,149	27,024			
211.78	10,159	27,126			
211.79	10,169	27,228			
211.80	10,179	27,329			
211.81	10,189	27,431			
211.82	10,199	27,533			
211.83	10,208	27,635			
211.84	10,218	27,737			
211.85	10,228	27,840			
211.86	10,238	27,942			
211.87	10,248	28,044			
211.88	10,258	28,147			
211.89	10,268	28,249			
211.90	10,277	28,352			
211.91	10,287	28,455			
211.92	10,297	28,558			
211.93	10,307	28,661			

Summary for Pond B-3: Basin #3

Inflow Area = 1.554 ac, 38.35% Impervious, Inflow Depth = 6.57" for Current 100 yr event
 Inflow = 10.41 cfs @ 12.17 hrs, Volume= 0.850 af
 Outflow = 0.24 cfs @ 17.52 hrs, Volume= 0.543 af, Atten= 98%, Lag= 321.0 min
 Primary = 0.24 cfs @ 17.52 hrs, Volume= 0.543 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 215.07' @ 17.52 hrs Surf.Area= 15,643 sf Storage= 26,551 cf

Plug-Flow detention time= 769.7 min calculated for 0.543 af (64% of inflow)
 Center-of-Mass det. time= 662.3 min (1,445.6 - 783.3)

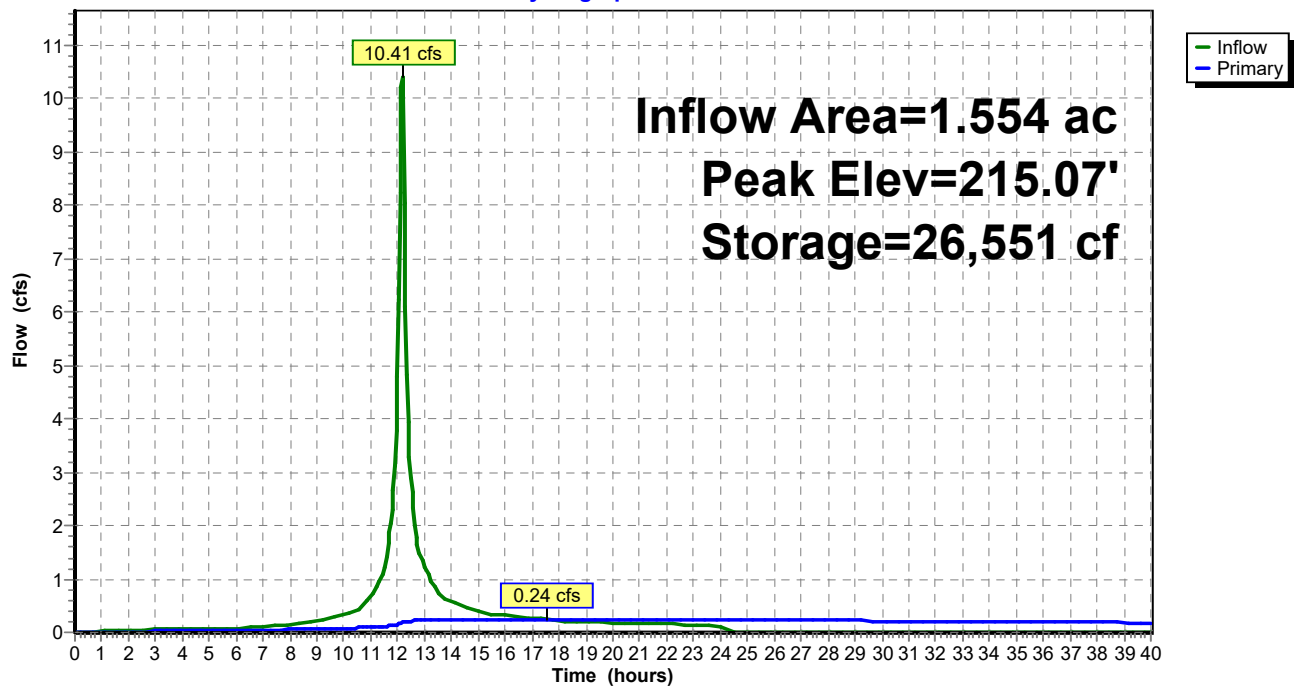
Volume	Invert	Avail.Storage	Storage Description
#1	213.00'	56,991 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
213.00	9,992	0	0
214.00	12,685	11,339	11,339
215.00	15,435	14,060	25,399
216.00	18,241	16,838	42,237
216.75	21,104	14,754	56,991

Device	Routing	Invert	Outlet Devices
#1	Primary	212.30'	18.0" Round Culvert L= 151.0' Ke= 0.500 Inlet / Outlet Invert= 212.30' / 202.00' S= 0.0682 ' S Cc= 0.900 n= 0.013 Concrete pipe, straight & clean, Flow Area= 1.77 sf
#2	Device 1	212.90'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	215.50'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	216.70'	50.0' long + 3.0 ' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.24 cfs @ 17.52 hrs HW=215.07' (Free Discharge)

1=Culvert (Passes 0.24 cfs of 12.11 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.24 cfs @ 6.93 fps)
 3=Sharp-Crested Rectangular Weir(Controls 0.00 cfs)
 4=Broad-Crested Rectangular Weir(Controls 0.00 cfs)

Pond B-3: Basin #3**Hydrograph**

Stage-Discharge for Pond B-3: Basin #3

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
213.00	0.00	213.52	0.12	214.04	0.17	214.56	0.20
213.01	0.02	213.53	0.12	214.05	0.17	214.57	0.21
213.02	0.02	213.54	0.12	214.06	0.17	214.58	0.21
213.03	0.03	213.55	0.12	214.07	0.17	214.59	0.21
213.04	0.03	213.56	0.12	214.08	0.17	214.60	0.21
213.05	0.03	213.57	0.12	214.09	0.17	214.61	0.21
213.06	0.04	213.58	0.12	214.10	0.17	214.62	0.21
213.07	0.04	213.59	0.13	214.11	0.17	214.63	0.21
213.08	0.05	213.60	0.13	214.12	0.17	214.64	0.21
213.09	0.05	213.61	0.13	214.13	0.17	214.65	0.21
213.10	0.05	213.62	0.13	214.14	0.17	214.66	0.21
213.11	0.05	213.63	0.13	214.15	0.18	214.67	0.21
213.12	0.06	213.64	0.13	214.16	0.18	214.68	0.21
213.13	0.06	213.65	0.13	214.17	0.18	214.69	0.21
213.14	0.06	213.66	0.13	214.18	0.18	214.70	0.21
213.15	0.06	213.67	0.13	214.19	0.18	214.71	0.21
213.16	0.06	213.68	0.13	214.20	0.18	214.72	0.22
213.17	0.07	213.69	0.14	214.21	0.18	214.73	0.22
213.18	0.07	213.70	0.14	214.22	0.18	214.74	0.22
213.19	0.07	213.71	0.14	214.23	0.18	214.75	0.22
213.20	0.07	213.72	0.14	214.24	0.18	214.76	0.22
213.21	0.07	213.73	0.14	214.25	0.18	214.77	0.22
213.22	0.08	213.74	0.14	214.26	0.18	214.78	0.22
213.23	0.08	213.75	0.14	214.27	0.18	214.79	0.22
213.24	0.08	213.76	0.14	214.28	0.19	214.80	0.22
213.25	0.08	213.77	0.14	214.29	0.19	214.81	0.22
213.26	0.08	213.78	0.14	214.30	0.19	214.82	0.22
213.27	0.08	213.79	0.15	214.31	0.19	214.83	0.22
213.28	0.09	213.80	0.15	214.32	0.19	214.84	0.22
213.29	0.09	213.81	0.15	214.33	0.19	214.85	0.22
213.30	0.09	213.82	0.15	214.34	0.19	214.86	0.22
213.31	0.09	213.83	0.15	214.35	0.19	214.87	0.22
213.32	0.09	213.84	0.15	214.36	0.19	214.88	0.22
213.33	0.09	213.85	0.15	214.37	0.19	214.89	0.23
213.34	0.10	213.86	0.15	214.38	0.19	214.90	0.23
213.35	0.10	213.87	0.15	214.39	0.19	214.91	0.23
213.36	0.10	213.88	0.15	214.40	0.19	214.92	0.23
213.37	0.10	213.89	0.15	214.41	0.19	214.93	0.23
213.38	0.10	213.90	0.16	214.42	0.20	214.94	0.23
213.39	0.10	213.91	0.16	214.43	0.20	214.95	0.23
213.40	0.10	213.92	0.16	214.44	0.20	214.96	0.23
213.41	0.10	213.93	0.16	214.45	0.20	214.97	0.23
213.42	0.11	213.94	0.16	214.46	0.20	214.98	0.23
213.43	0.11	213.95	0.16	214.47	0.20	214.99	0.23
213.44	0.11	213.96	0.16	214.48	0.20	215.00	0.23
213.45	0.11	213.97	0.16	214.49	0.20	215.01	0.23
213.46	0.11	213.98	0.16	214.50	0.20	215.02	0.23
213.47	0.11	213.99	0.16	214.51	0.20	215.03	0.23
213.48	0.11	214.00	0.16	214.52	0.20	215.04	0.23
213.49	0.11	214.01	0.16	214.53	0.20	215.05	0.23
213.50	0.12	214.02	0.17	214.54	0.20	215.06	0.24
213.51	0.12	214.03	0.17	214.55	0.20	215.07	0.24

Stage-Discharge for Pond B-3: Basin #3 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
215.08	0.24	215.60	0.68	216.12	6.48	216.64	15.33
215.09	0.24	215.61	0.74	216.13	6.62	216.65	15.52
215.10	0.24	215.62	0.81	216.14	6.77	216.66	15.71
215.11	0.24	215.63	0.88	216.15	6.92	216.67	15.90
215.12	0.24	215.64	0.95	216.16	7.07	216.68	16.09
215.13	0.24	215.65	1.02	216.17	7.23	216.69	16.23
215.14	0.24	215.66	1.10	216.18	7.38	216.70	16.26
215.15	0.24	215.67	1.18	216.19	7.53	216.71	16.40
215.16	0.24	215.68	1.26	216.20	7.69	216.72	16.63
215.17	0.24	215.69	1.34	216.21	7.84	216.73	16.93
215.18	0.24	215.70	1.43	216.22	8.00	216.74	17.28
215.19	0.24	215.71	1.52	216.23	8.16	216.75	17.68
215.20	0.24	215.72	1.61	216.24	8.31		
215.21	0.24	215.73	1.70	216.25	8.47		
215.22	0.24	215.74	1.79	216.26	8.63		
215.23	0.24	215.75	1.89	216.27	8.79		
215.24	0.25	215.76	1.98	216.28	8.96		
215.25	0.25	215.77	2.08	216.29	9.12		
215.26	0.25	215.78	2.18	216.30	9.28		
215.27	0.25	215.79	2.29	216.31	9.45		
215.28	0.25	215.80	2.39	216.32	9.61		
215.29	0.25	215.81	2.50	216.33	9.78		
215.30	0.25	215.82	2.61	216.34	9.95		
215.31	0.25	215.83	2.71	216.35	10.11		
215.32	0.25	215.84	2.83	216.36	10.28		
215.33	0.25	215.85	2.94	216.37	10.45		
215.34	0.25	215.86	3.05	216.38	10.62		
215.35	0.25	215.87	3.17	216.39	10.80		
215.36	0.25	215.88	3.28	216.40	10.97		
215.37	0.25	215.89	3.40	216.41	11.14		
215.38	0.25	215.90	3.52	216.42	11.31		
215.39	0.25	215.91	3.64	216.43	11.49		
215.40	0.25	215.92	3.77	216.44	11.66		
215.41	0.25	215.93	3.89	216.45	11.84		
215.42	0.26	215.94	4.01	216.46	12.02		
215.43	0.26	215.95	4.14	216.47	12.20		
215.44	0.26	215.96	4.27	216.48	12.37		
215.45	0.26	215.97	4.40	216.49	12.55		
215.46	0.26	215.98	4.53	216.50	12.73		
215.47	0.26	215.99	4.66	216.51	12.91		
215.48	0.26	216.00	4.79	216.52	13.09		
215.49	0.26	216.01	4.93	216.53	13.28		
215.50	0.26	216.02	5.06	216.54	13.46		
215.51	0.27	216.03	5.20	216.55	13.64		
215.52	0.30	216.04	5.34	216.56	13.83		
215.53	0.33	216.05	5.47	216.57	14.01		
215.54	0.37	216.06	5.61	216.58	14.20		
215.55	0.41	216.07	5.76	216.59	14.38		
215.56	0.45	216.08	5.90	216.60	14.57		
215.57	0.50	216.09	6.04	216.61	14.76		
215.58	0.56	216.10	6.19	216.62	14.95		
215.59	0.62	216.11	6.33	216.63	15.14		

Stage-Area-Storage for Pond B-3: Basin #3

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
213.00	9,992	0	213.52	11,392	5,560
213.01	10,019	100	213.53	11,419	5,674
213.02	10,046	200	213.54	11,446	5,788
213.03	10,073	301	213.55	11,473	5,903
213.04	10,100	402	213.56	11,500	6,018
213.05	10,127	503	213.57	11,527	6,133
213.06	10,154	604	213.58	11,554	6,248
213.07	10,181	706	213.59	11,581	6,364
213.08	10,207	808	213.60	11,608	6,480
213.09	10,234	910	213.61	11,635	6,596
213.10	10,261	1,013	213.62	11,662	6,713
213.11	10,288	1,115	213.63	11,689	6,829
213.12	10,315	1,218	213.64	11,716	6,946
213.13	10,342	1,322	213.65	11,742	7,064
213.14	10,369	1,425	213.66	11,769	7,181
213.15	10,396	1,529	213.67	11,796	7,299
213.16	10,423	1,633	213.68	11,823	7,417
213.17	10,450	1,738	213.69	11,850	7,536
213.18	10,477	1,842	213.70	11,877	7,654
213.19	10,504	1,947	213.71	11,904	7,773
213.20	10,531	2,052	213.72	11,931	7,892
213.21	10,558	2,158	213.73	11,958	8,012
213.22	10,584	2,263	213.74	11,985	8,131
213.23	10,611	2,369	213.75	12,012	8,251
213.24	10,638	2,476	213.76	12,039	8,372
213.25	10,665	2,582	213.77	12,066	8,492
213.26	10,692	2,689	213.78	12,093	8,613
213.27	10,719	2,796	213.79	12,119	8,734
213.28	10,746	2,903	213.80	12,146	8,855
213.29	10,773	3,011	213.81	12,173	8,977
213.30	10,800	3,119	213.82	12,200	9,099
213.31	10,827	3,227	213.83	12,227	9,221
213.32	10,854	3,335	213.84	12,254	9,343
213.33	10,881	3,444	213.85	12,281	9,466
213.34	10,908	3,553	213.86	12,308	9,589
213.35	10,935	3,662	213.87	12,335	9,712
213.36	10,961	3,772	213.88	12,362	9,836
213.37	10,988	3,881	213.89	12,389	9,959
213.38	11,015	3,991	213.90	12,416	10,083
213.39	11,042	4,102	213.91	12,443	10,208
213.40	11,069	4,212	213.92	12,470	10,332
213.41	11,096	4,323	213.93	12,496	10,457
213.42	11,123	4,434	213.94	12,523	10,582
213.43	11,150	4,546	213.95	12,550	10,708
213.44	11,177	4,657	213.96	12,577	10,833
213.45	11,204	4,769	213.97	12,604	10,959
213.46	11,231	4,881	213.98	12,631	11,085
213.47	11,258	4,994	213.99	12,658	11,212
213.48	11,285	5,106	214.00	12,685	11,339
213.49	11,312	5,219	214.01	12,712	11,465
213.50	11,339	5,333	214.02	12,740	11,593
213.51	11,365	5,446	214.03	12,768	11,720

Stage-Area-Storage for Pond B-3: Basin #3 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
214.04	12,795	11,848	214.56	14,225	18,873
214.05	12,823	11,976	214.57	14,252	19,016
214.06	12,850	12,105	214.58	14,280	19,158
214.07	12,877	12,233	214.59	14,308	19,301
214.08	12,905	12,362	214.60	14,335	19,444
214.09	12,933	12,491	214.61	14,363	19,588
214.10	12,960	12,621	214.62	14,390	19,732
214.11	12,988	12,750	214.63	14,417	19,876
214.12	13,015	12,881	214.64	14,445	20,020
214.13	13,042	13,011	214.65	14,473	20,165
214.14	13,070	13,141	214.66	14,500	20,310
214.15	13,098	13,272	214.67	14,527	20,455
214.16	13,125	13,403	214.68	14,555	20,600
214.17	13,152	13,535	214.69	14,582	20,746
214.18	13,180	13,666	214.70	14,610	20,892
214.19	13,207	13,798	214.71	14,638	21,038
214.20	13,235	13,930	214.72	14,665	21,184
214.21	13,263	14,063	214.73	14,692	21,331
214.22	13,290	14,196	214.74	14,720	21,478
214.23	13,317	14,329	214.75	14,748	21,626
214.24	13,345	14,462	214.76	14,775	21,773
214.25	13,373	14,596	214.77	14,803	21,921
214.26	13,400	14,730	214.78	14,830	22,069
214.27	13,428	14,864	214.79	14,857	22,218
214.28	13,455	14,998	214.80	14,885	22,367
214.29	13,482	15,133	214.81	14,913	22,515
214.30	13,510	15,268	214.82	14,940	22,665
214.31	13,538	15,403	214.83	14,968	22,814
214.32	13,565	15,538	214.84	14,995	22,964
214.33	13,593	15,674	214.85	15,022	23,114
214.34	13,620	15,810	214.86	15,050	23,265
214.35	13,647	15,947	214.87	15,078	23,415
214.36	13,675	16,083	214.88	15,105	23,566
214.37	13,703	16,220	214.89	15,132	23,717
214.38	13,730	16,357	214.90	15,160	23,869
214.39	13,757	16,495	214.91	15,187	24,020
214.40	13,785	16,633	214.92	15,215	24,172
214.41	13,812	16,770	214.93	15,243	24,325
214.42	13,840	16,909	214.94	15,270	24,477
214.43	13,868	17,047	214.95	15,297	24,630
214.44	13,895	17,186	214.96	15,325	24,783
214.45	13,922	17,325	214.97	15,352	24,937
214.46	13,950	17,465	214.98	15,380	25,090
214.47	13,977	17,604	214.99	15,408	25,244
214.48	14,005	17,744	215.00	15,435	25,399
214.49	14,033	17,884	215.01	15,463	25,553
214.50	14,060	18,025	215.02	15,491	25,708
214.51	14,087	18,165	215.03	15,519	25,863
214.52	14,115	18,307	215.04	15,547	26,018
214.53	14,143	18,448	215.05	15,575	26,174
214.54	14,170	18,589	215.06	15,603	26,330
214.55	14,198	18,731	215.07	15,631	26,486

Stage-Area-Storage for Pond B-3: Basin #3 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
215.08	15,659	26,642	215.60	17,119	35,165
215.09	15,688	26,799	215.61	17,147	35,336
215.10	15,716	26,956	215.62	17,175	35,508
215.11	15,744	27,113	215.63	17,203	35,679
215.12	15,772	27,271	215.64	17,231	35,852
215.13	15,800	27,429	215.65	17,259	36,024
215.14	15,828	27,587	215.66	17,287	36,197
215.15	15,856	27,745	215.67	17,315	36,370
215.16	15,884	27,904	215.68	17,343	36,543
215.17	15,912	28,063	215.69	17,371	36,717
215.18	15,940	28,222	215.70	17,399	36,890
215.19	15,968	28,382	215.71	17,427	37,065
215.20	15,996	28,542	215.72	17,455	37,239
215.21	16,024	28,702	215.73	17,483	37,414
215.22	16,052	28,862	215.74	17,511	37,589
215.23	16,080	29,023	215.75	17,540	37,764
215.24	16,108	29,184	215.76	17,568	37,939
215.25	16,137	29,345	215.77	17,596	38,115
215.26	16,165	29,506	215.78	17,624	38,291
215.27	16,193	29,668	215.79	17,652	38,468
215.28	16,221	29,830	215.80	17,680	38,644
215.29	16,249	29,993	215.81	17,708	38,821
215.30	16,277	30,155	215.82	17,736	38,999
215.31	16,305	30,318	215.83	17,764	39,176
215.32	16,333	30,481	215.84	17,792	39,354
215.33	16,361	30,645	215.85	17,820	39,532
215.34	16,389	30,809	215.86	17,848	39,710
215.35	16,417	30,973	215.87	17,876	39,889
215.36	16,445	31,137	215.88	17,904	40,068
215.37	16,473	31,302	215.89	17,932	40,247
215.38	16,501	31,466	215.90	17,960	40,426
215.39	16,529	31,632	215.91	17,988	40,606
215.40	16,557	31,797	215.92	18,017	40,786
215.41	16,585	31,963	215.93	18,045	40,967
215.42	16,614	32,129	215.94	18,073	41,147
215.43	16,642	32,295	215.95	18,101	41,328
215.44	16,670	32,462	215.96	18,129	41,509
215.45	16,698	32,628	215.97	18,157	41,691
215.46	16,726	32,795	215.98	18,185	41,872
215.47	16,754	32,963	215.99	18,213	42,054
215.48	16,782	33,131	216.00	18,241	42,237
215.49	16,810	33,299	216.01	18,279	42,419
215.50	16,838	33,467	216.02	18,317	42,602
215.51	16,866	33,635	216.03	18,356	42,785
215.52	16,894	33,804	216.04	18,394	42,969
215.53	16,922	33,973	216.05	18,432	43,153
215.54	16,950	34,143	216.06	18,470	43,338
215.55	16,978	34,312	216.07	18,508	43,523
215.56	17,006	34,482	216.08	18,546	43,708
215.57	17,034	34,652	216.09	18,585	43,894
215.58	17,062	34,823	216.10	18,623	44,080
215.59	17,091	34,994	216.11	18,661	44,266

Stage-Area-Storage for Pond B-3: Basin #3 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
216.12	18,699	44,453	216.64	20,684	54,693
216.13	18,737	44,640	216.65	20,722	54,900
216.14	18,775	44,828	216.66	20,760	55,107
216.15	18,814	45,016	216.67	20,799	55,315
216.16	18,852	45,204	216.68	20,837	55,523
216.17	18,890	45,393	216.69	20,875	55,732
216.18	18,928	45,582	216.70	20,913	55,940
216.19	18,966	45,771	216.71	20,951	56,150
216.20	19,004	45,961	216.72	20,989	56,359
216.21	19,043	46,151	216.73	21,028	56,570
216.22	19,081	46,342	216.74	21,066	56,780
216.23	19,119	46,533	216.75	21,104	56,991
216.24	19,157	46,724			
216.25	19,195	46,916			
216.26	19,234	47,108			
216.27	19,272	47,301			
216.28	19,310	47,494			
216.29	19,348	47,687			
216.30	19,386	47,881			
216.31	19,424	48,075			
216.32	19,463	48,269			
216.33	19,501	48,464			
216.34	19,539	48,659			
216.35	19,577	48,855			
216.36	19,615	49,051			
216.37	19,653	49,247			
216.38	19,692	49,444			
216.39	19,730	49,641			
216.40	19,768	49,838			
216.41	19,806	50,036			
216.42	19,844	50,234			
216.43	19,882	50,433			
216.44	19,921	50,632			
216.45	19,959	50,831			
216.46	19,997	51,031			
216.47	20,035	51,231			
216.48	20,073	51,432			
216.49	20,111	51,633			
216.50	20,150	51,834			
216.51	20,188	52,036			
216.52	20,226	52,238			
216.53	20,264	52,440			
216.54	20,302	52,643			
216.55	20,341	52,846			
216.56	20,379	53,050			
216.57	20,417	53,254			
216.58	20,455	53,458			
216.59	20,493	53,663			
216.60	20,531	53,868			
216.61	20,570	54,074			
216.62	20,608	54,280			
216.63	20,646	54,486			

Summary for Pond B-4A: Basin #4A

Inflow Area = 2.331 ac, 36.89% Impervious, Inflow Depth = 6.52" for Current 100 yr event
 Inflow = 15.55 cfs @ 12.17 hrs, Volume= 1.267 af
 Outflow = 22.52 cfs @ 12.20 hrs, Volume= 0.793 af, Atten= 0%, Lag= 1.6 min
 Primary = 22.52 cfs @ 12.20 hrs, Volume= 0.793 af
 Routed to Pond B-5 : Basin #5

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 205.77' @ 12.20 hrs Surf.Area= 6,057 sf Storage= 20,963 cf

Plug-Flow detention time= 201.1 min calculated for 0.793 af (63% of inflow)
 Center-of-Mass det. time= 92.5 min (877.0 - 784.5)

Volume	Invert	Avail.Storage	Storage Description
#1	200.00'	20,963 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
200.00	1,891	0	0
201.00	2,495	2,193	2,193
202.00	3,169	2,832	5,025
203.00	3,912	3,541	8,566
204.00	4,724	4,318	12,884
205.00	5,604	5,164	18,048
205.50	6,057	2,915	20,963

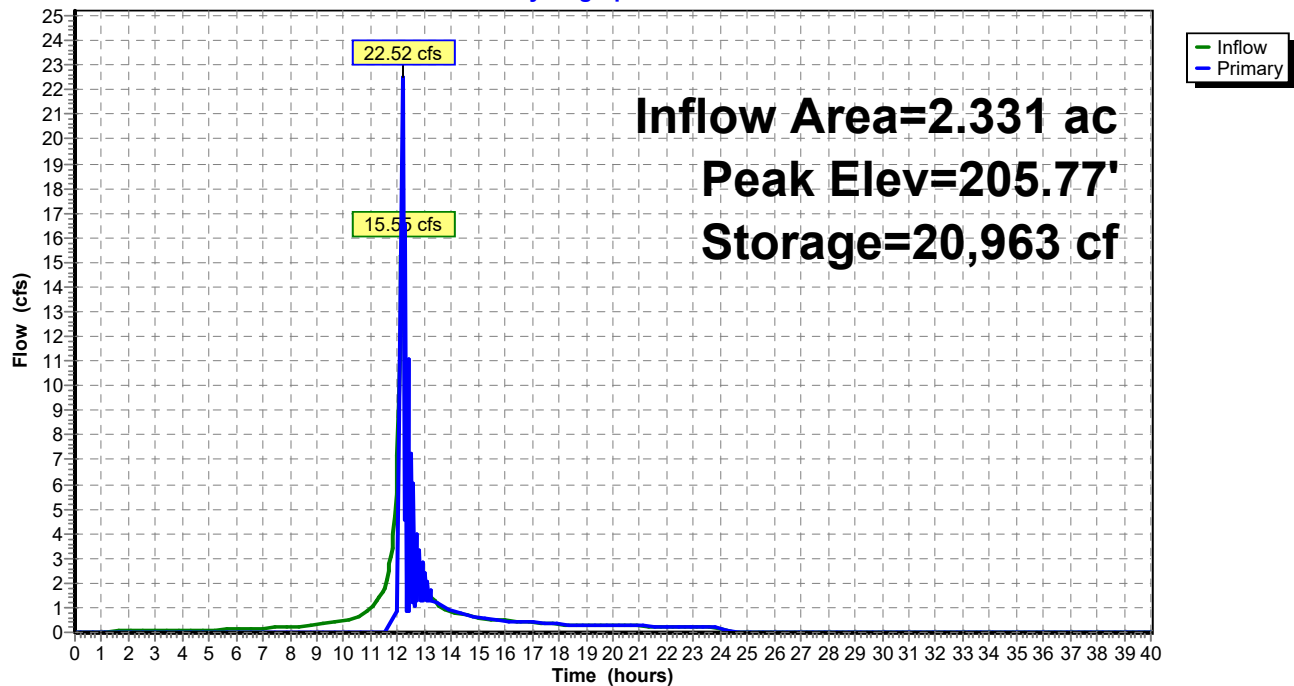
Device	Routing	Invert	Outlet Devices
#1	Primary	205.45'	50.0' long + 3.0 ' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=21.57 cfs @ 12.20 hrs HW=205.76' (Free Discharge)

↑ **1=Broad-Crested Rectangular Weir** (Weir Controls 21.57 cfs @ 1.35 fps)

Pond B-4A: Basin #4A

Hydrograph



Stage-Discharge for Pond B-4A: Basin #4A

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
200.00	0.00	200.52	0.00	201.04	0.00	201.56	0.00
200.01	0.00	200.53	0.00	201.05	0.00	201.57	0.00
200.02	0.00	200.54	0.00	201.06	0.00	201.58	0.00
200.03	0.00	200.55	0.00	201.07	0.00	201.59	0.00
200.04	0.00	200.56	0.00	201.08	0.00	201.60	0.00
200.05	0.00	200.57	0.00	201.09	0.00	201.61	0.00
200.06	0.00	200.58	0.00	201.10	0.00	201.62	0.00
200.07	0.00	200.59	0.00	201.11	0.00	201.63	0.00
200.08	0.00	200.60	0.00	201.12	0.00	201.64	0.00
200.09	0.00	200.61	0.00	201.13	0.00	201.65	0.00
200.10	0.00	200.62	0.00	201.14	0.00	201.66	0.00
200.11	0.00	200.63	0.00	201.15	0.00	201.67	0.00
200.12	0.00	200.64	0.00	201.16	0.00	201.68	0.00
200.13	0.00	200.65	0.00	201.17	0.00	201.69	0.00
200.14	0.00	200.66	0.00	201.18	0.00	201.70	0.00
200.15	0.00	200.67	0.00	201.19	0.00	201.71	0.00
200.16	0.00	200.68	0.00	201.20	0.00	201.72	0.00
200.17	0.00	200.69	0.00	201.21	0.00	201.73	0.00
200.18	0.00	200.70	0.00	201.22	0.00	201.74	0.00
200.19	0.00	200.71	0.00	201.23	0.00	201.75	0.00
200.20	0.00	200.72	0.00	201.24	0.00	201.76	0.00
200.21	0.00	200.73	0.00	201.25	0.00	201.77	0.00
200.22	0.00	200.74	0.00	201.26	0.00	201.78	0.00
200.23	0.00	200.75	0.00	201.27	0.00	201.79	0.00
200.24	0.00	200.76	0.00	201.28	0.00	201.80	0.00
200.25	0.00	200.77	0.00	201.29	0.00	201.81	0.00
200.26	0.00	200.78	0.00	201.30	0.00	201.82	0.00
200.27	0.00	200.79	0.00	201.31	0.00	201.83	0.00
200.28	0.00	200.80	0.00	201.32	0.00	201.84	0.00
200.29	0.00	200.81	0.00	201.33	0.00	201.85	0.00
200.30	0.00	200.82	0.00	201.34	0.00	201.86	0.00
200.31	0.00	200.83	0.00	201.35	0.00	201.87	0.00
200.32	0.00	200.84	0.00	201.36	0.00	201.88	0.00
200.33	0.00	200.85	0.00	201.37	0.00	201.89	0.00
200.34	0.00	200.86	0.00	201.38	0.00	201.90	0.00
200.35	0.00	200.87	0.00	201.39	0.00	201.91	0.00
200.36	0.00	200.88	0.00	201.40	0.00	201.92	0.00
200.37	0.00	200.89	0.00	201.41	0.00	201.93	0.00
200.38	0.00	200.90	0.00	201.42	0.00	201.94	0.00
200.39	0.00	200.91	0.00	201.43	0.00	201.95	0.00
200.40	0.00	200.92	0.00	201.44	0.00	201.96	0.00
200.41	0.00	200.93	0.00	201.45	0.00	201.97	0.00
200.42	0.00	200.94	0.00	201.46	0.00	201.98	0.00
200.43	0.00	200.95	0.00	201.47	0.00	201.99	0.00
200.44	0.00	200.96	0.00	201.48	0.00	202.00	0.00
200.45	0.00	200.97	0.00	201.49	0.00	202.01	0.00
200.46	0.00	200.98	0.00	201.50	0.00	202.02	0.00
200.47	0.00	200.99	0.00	201.51	0.00	202.03	0.00
200.48	0.00	201.00	0.00	201.52	0.00	202.04	0.00
200.49	0.00	201.01	0.00	201.53	0.00	202.05	0.00
200.50	0.00	201.02	0.00	201.54	0.00	202.06	0.00
200.51	0.00	201.03	0.00	201.55	0.00	202.07	0.00

Stage-Discharge for Pond B-4A: Basin #4A (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
202.08	0.00	202.60	0.00	203.12	0.00	203.64	0.00
202.09	0.00	202.61	0.00	203.13	0.00	203.65	0.00
202.10	0.00	202.62	0.00	203.14	0.00	203.66	0.00
202.11	0.00	202.63	0.00	203.15	0.00	203.67	0.00
202.12	0.00	202.64	0.00	203.16	0.00	203.68	0.00
202.13	0.00	202.65	0.00	203.17	0.00	203.69	0.00
202.14	0.00	202.66	0.00	203.18	0.00	203.70	0.00
202.15	0.00	202.67	0.00	203.19	0.00	203.71	0.00
202.16	0.00	202.68	0.00	203.20	0.00	203.72	0.00
202.17	0.00	202.69	0.00	203.21	0.00	203.73	0.00
202.18	0.00	202.70	0.00	203.22	0.00	203.74	0.00
202.19	0.00	202.71	0.00	203.23	0.00	203.75	0.00
202.20	0.00	202.72	0.00	203.24	0.00	203.76	0.00
202.21	0.00	202.73	0.00	203.25	0.00	203.77	0.00
202.22	0.00	202.74	0.00	203.26	0.00	203.78	0.00
202.23	0.00	202.75	0.00	203.27	0.00	203.79	0.00
202.24	0.00	202.76	0.00	203.28	0.00	203.80	0.00
202.25	0.00	202.77	0.00	203.29	0.00	203.81	0.00
202.26	0.00	202.78	0.00	203.30	0.00	203.82	0.00
202.27	0.00	202.79	0.00	203.31	0.00	203.83	0.00
202.28	0.00	202.80	0.00	203.32	0.00	203.84	0.00
202.29	0.00	202.81	0.00	203.33	0.00	203.85	0.00
202.30	0.00	202.82	0.00	203.34	0.00	203.86	0.00
202.31	0.00	202.83	0.00	203.35	0.00	203.87	0.00
202.32	0.00	202.84	0.00	203.36	0.00	203.88	0.00
202.33	0.00	202.85	0.00	203.37	0.00	203.89	0.00
202.34	0.00	202.86	0.00	203.38	0.00	203.90	0.00
202.35	0.00	202.87	0.00	203.39	0.00	203.91	0.00
202.36	0.00	202.88	0.00	203.40	0.00	203.92	0.00
202.37	0.00	202.89	0.00	203.41	0.00	203.93	0.00
202.38	0.00	202.90	0.00	203.42	0.00	203.94	0.00
202.39	0.00	202.91	0.00	203.43	0.00	203.95	0.00
202.40	0.00	202.92	0.00	203.44	0.00	203.96	0.00
202.41	0.00	202.93	0.00	203.45	0.00	203.97	0.00
202.42	0.00	202.94	0.00	203.46	0.00	203.98	0.00
202.43	0.00	202.95	0.00	203.47	0.00	203.99	0.00
202.44	0.00	202.96	0.00	203.48	0.00	204.00	0.00
202.45	0.00	202.97	0.00	203.49	0.00	204.01	0.00
202.46	0.00	202.98	0.00	203.50	0.00	204.02	0.00
202.47	0.00	202.99	0.00	203.51	0.00	204.03	0.00
202.48	0.00	203.00	0.00	203.52	0.00	204.04	0.00
202.49	0.00	203.01	0.00	203.53	0.00	204.05	0.00
202.50	0.00	203.02	0.00	203.54	0.00	204.06	0.00
202.51	0.00	203.03	0.00	203.55	0.00	204.07	0.00
202.52	0.00	203.04	0.00	203.56	0.00	204.08	0.00
202.53	0.00	203.05	0.00	203.57	0.00	204.09	0.00
202.54	0.00	203.06	0.00	203.58	0.00	204.10	0.00
202.55	0.00	203.07	0.00	203.59	0.00	204.11	0.00
202.56	0.00	203.08	0.00	203.60	0.00	204.12	0.00
202.57	0.00	203.09	0.00	203.61	0.00	204.13	0.00
202.58	0.00	203.10	0.00	203.62	0.00	204.14	0.00
202.59	0.00	203.11	0.00	203.63	0.00	204.15	0.00

Stage-Discharge for Pond B-4A: Basin #4A (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
204.16	0.00	204.68	0.00	205.20	0.00	205.72	17.03
204.17	0.00	204.69	0.00	205.21	0.00	205.73	18.05
204.18	0.00	204.70	0.00	205.22	0.00	205.74	19.10
204.19	0.00	204.71	0.00	205.23	0.00	205.75	20.17
204.20	0.00	204.72	0.00	205.24	0.00	205.76	21.27
204.21	0.00	204.73	0.00	205.25	0.00	205.77	22.39
204.22	0.00	204.74	0.00	205.26	0.00	205.78	23.53
204.23	0.00	204.75	0.00	205.27	0.00		
204.24	0.00	204.76	0.00	205.28	0.00		
204.25	0.00	204.77	0.00	205.29	0.00		
204.26	0.00	204.78	0.00	205.30	0.00		
204.27	0.00	204.79	0.00	205.31	0.00		
204.28	0.00	204.80	0.00	205.32	0.00		
204.29	0.00	204.81	0.00	205.33	0.00		
204.30	0.00	204.82	0.00	205.34	0.00		
204.31	0.00	204.83	0.00	205.35	0.00		
204.32	0.00	204.84	0.00	205.36	0.00		
204.33	0.00	204.85	0.00	205.37	0.00		
204.34	0.00	204.86	0.00	205.38	0.00		
204.35	0.00	204.87	0.00	205.39	0.00		
204.36	0.00	204.88	0.00	205.40	0.00		
204.37	0.00	204.89	0.00	205.41	0.00		
204.38	0.00	204.90	0.00	205.42	0.00		
204.39	0.00	204.91	0.00	205.43	0.00		
204.40	0.00	204.92	0.00	205.44	0.00		
204.41	0.00	204.93	0.00	205.45	0.00		
204.42	0.00	204.94	0.00	205.46	0.12		
204.43	0.00	204.95	0.00	205.47	0.33		
204.44	0.00	204.96	0.00	205.48	0.61		
204.45	0.00	204.97	0.00	205.49	0.94		
204.46	0.00	204.98	0.00	205.50	1.31		
204.47	0.00	204.99	0.00	205.51	1.72		
204.48	0.00	205.00	0.00	205.52	2.17		
204.49	0.00	205.01	0.00	205.53	2.66		
204.50	0.00	205.02	0.00	205.54	3.17		
204.51	0.00	205.03	0.00	205.55	3.72		
204.52	0.00	205.04	0.00	205.56	4.29		
204.53	0.00	205.05	0.00	205.57	4.89		
204.54	0.00	205.06	0.00	205.58	5.52		
204.55	0.00	205.07	0.00	205.59	6.17		
204.56	0.00	205.08	0.00	205.60	6.85		
204.57	0.00	205.09	0.00	205.61	7.55		
204.58	0.00	205.10	0.00	205.62	8.27		
204.59	0.00	205.11	0.00	205.63	9.01		
204.60	0.00	205.12	0.00	205.64	9.78		
204.61	0.00	205.13	0.00	205.65	10.57		
204.62	0.00	205.14	0.00	205.66	11.41		
204.63	0.00	205.15	0.00	205.67	12.28		
204.64	0.00	205.16	0.00	205.68	13.18		
204.65	0.00	205.17	0.00	205.69	14.11		
204.66	0.00	205.18	0.00	205.70	15.05		
204.67	0.00	205.19	0.00	205.71	16.03		

Stage-Area-Storage for Pond B-4A: Basin #4A

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
200.00	1,891	0	200.52	2,205	1,065
200.01	1,897	19	200.53	2,211	1,087
200.02	1,903	38	200.54	2,217	1,109
200.03	1,909	57	200.55	2,223	1,131
200.04	1,915	76	200.56	2,229	1,154
200.05	1,921	95	200.57	2,235	1,176
200.06	1,927	115	200.58	2,241	1,198
200.07	1,933	134	200.59	2,247	1,221
200.08	1,939	153	200.60	2,253	1,243
200.09	1,945	173	200.61	2,259	1,266
200.10	1,951	192	200.62	2,265	1,289
200.11	1,957	212	200.63	2,272	1,311
200.12	1,963	231	200.64	2,278	1,334
200.13	1,970	251	200.65	2,284	1,357
200.14	1,976	271	200.66	2,290	1,380
200.15	1,982	290	200.67	2,296	1,403
200.16	1,988	310	200.68	2,302	1,426
200.17	1,994	330	200.69	2,308	1,449
200.18	2,000	350	200.70	2,314	1,472
200.19	2,006	370	200.71	2,320	1,495
200.20	2,012	390	200.72	2,326	1,518
200.21	2,018	410	200.73	2,332	1,541
200.22	2,024	431	200.74	2,338	1,565
200.23	2,030	451	200.75	2,344	1,588
200.24	2,036	471	200.76	2,350	1,612
200.25	2,042	492	200.77	2,356	1,635
200.26	2,048	512	200.78	2,362	1,659
200.27	2,054	533	200.79	2,368	1,682
200.28	2,060	553	200.80	2,374	1,706
200.29	2,066	574	200.81	2,380	1,730
200.30	2,072	594	200.82	2,386	1,754
200.31	2,078	615	200.83	2,392	1,778
200.32	2,084	636	200.84	2,398	1,802
200.33	2,090	657	200.85	2,404	1,826
200.34	2,096	678	200.86	2,410	1,850
200.35	2,102	699	200.87	2,416	1,874
200.36	2,108	720	200.88	2,423	1,898
200.37	2,114	741	200.89	2,429	1,922
200.38	2,121	762	200.90	2,435	1,947
200.39	2,127	783	200.91	2,441	1,971
200.40	2,133	805	200.92	2,447	1,995
200.41	2,139	826	200.93	2,453	2,020
200.42	2,145	847	200.94	2,459	2,044
200.43	2,151	869	200.95	2,465	2,069
200.44	2,157	891	200.96	2,471	2,094
200.45	2,163	912	200.97	2,477	2,118
200.46	2,169	934	200.98	2,483	2,143
200.47	2,175	955	200.99	2,489	2,168
200.48	2,181	977	201.00	2,495	2,193
200.49	2,187	999	201.01	2,502	2,218
200.50	2,193	1,021	201.02	2,508	2,243
200.51	2,199	1,043	201.03	2,515	2,268

Stage-Area-Storage for Pond B-4A: Basin #4A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
201.04	2,522	2,293	201.56	2,872	3,696
201.05	2,529	2,319	201.57	2,879	3,725
201.06	2,535	2,344	201.58	2,886	3,753
201.07	2,542	2,369	201.59	2,893	3,782
201.08	2,549	2,395	201.60	2,899	3,811
201.09	2,556	2,420	201.61	2,906	3,840
201.10	2,562	2,446	201.62	2,913	3,869
201.11	2,569	2,472	201.63	2,920	3,899
201.12	2,576	2,497	201.64	2,926	3,928
201.13	2,583	2,523	201.65	2,933	3,957
201.14	2,589	2,549	201.66	2,940	3,986
201.15	2,596	2,575	201.67	2,947	4,016
201.16	2,603	2,601	201.68	2,953	4,045
201.17	2,610	2,627	201.69	2,960	4,075
201.18	2,616	2,653	201.70	2,967	4,105
201.19	2,623	2,679	201.71	2,974	4,134
201.20	2,630	2,705	201.72	2,980	4,164
201.21	2,637	2,732	201.73	2,987	4,194
201.22	2,643	2,758	201.74	2,994	4,224
201.23	2,650	2,785	201.75	3,001	4,254
201.24	2,657	2,811	201.76	3,007	4,284
201.25	2,664	2,838	201.77	3,014	4,314
201.26	2,670	2,864	201.78	3,021	4,344
201.27	2,677	2,891	201.79	3,027	4,374
201.28	2,684	2,918	201.80	3,034	4,405
201.29	2,690	2,945	201.81	3,041	4,435
201.30	2,697	2,972	201.82	3,048	4,465
201.31	2,704	2,999	201.83	3,054	4,496
201.32	2,711	3,026	201.84	3,061	4,527
201.33	2,717	3,053	201.85	3,068	4,557
201.34	2,724	3,080	201.86	3,075	4,588
201.35	2,731	3,108	201.87	3,081	4,619
201.36	2,738	3,135	201.88	3,088	4,650
201.37	2,744	3,162	201.89	3,095	4,680
201.38	2,751	3,190	201.90	3,102	4,711
201.39	2,758	3,217	201.91	3,108	4,743
201.40	2,765	3,245	201.92	3,115	4,774
201.41	2,771	3,273	201.93	3,122	4,805
201.42	2,778	3,300	201.94	3,129	4,836
201.43	2,785	3,328	201.95	3,135	4,867
201.44	2,792	3,356	201.96	3,142	4,899
201.45	2,798	3,384	201.97	3,149	4,930
201.46	2,805	3,412	201.98	3,156	4,962
201.47	2,812	3,440	201.99	3,162	4,993
201.48	2,819	3,468	202.00	3,169	5,025
201.49	2,825	3,496	202.01	3,176	5,057
201.50	2,832	3,525	202.02	3,184	5,089
201.51	2,839	3,553	202.03	3,191	5,120
201.52	2,845	3,582	202.04	3,199	5,152
201.53	2,852	3,610	202.05	3,206	5,184
201.54	2,859	3,639	202.06	3,214	5,216
201.55	2,866	3,667	202.07	3,221	5,249

Stage-Area-Storage for Pond B-4A: Basin #4A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
202.08	3,228	5,281	202.60	3,615	7,060
202.09	3,236	5,313	202.61	3,622	7,096
202.10	3,243	5,346	202.62	3,630	7,133
202.11	3,251	5,378	202.63	3,637	7,169
202.12	3,258	5,411	202.64	3,645	7,205
202.13	3,266	5,443	202.65	3,652	7,242
202.14	3,273	5,476	202.66	3,659	7,278
202.15	3,280	5,509	202.67	3,667	7,315
202.16	3,288	5,542	202.68	3,674	7,352
202.17	3,295	5,574	202.69	3,682	7,388
202.18	3,303	5,607	202.70	3,689	7,425
202.19	3,310	5,641	202.71	3,697	7,462
202.20	3,318	5,674	202.72	3,704	7,499
202.21	3,325	5,707	202.73	3,711	7,536
202.22	3,332	5,740	202.74	3,719	7,573
202.23	3,340	5,774	202.75	3,726	7,611
202.24	3,347	5,807	202.76	3,734	7,648
202.25	3,355	5,840	202.77	3,741	7,685
202.26	3,362	5,874	202.78	3,749	7,723
202.27	3,370	5,908	202.79	3,756	7,760
202.28	3,377	5,941	202.80	3,763	7,798
202.29	3,384	5,975	202.81	3,771	7,836
202.30	3,392	6,009	202.82	3,778	7,873
202.31	3,399	6,043	202.83	3,786	7,911
202.32	3,407	6,077	202.84	3,793	7,949
202.33	3,414	6,111	202.85	3,801	7,987
202.34	3,422	6,145	202.86	3,808	8,025
202.35	3,429	6,180	202.87	3,815	8,063
202.36	3,436	6,214	202.88	3,823	8,101
202.37	3,444	6,248	202.89	3,830	8,140
202.38	3,451	6,283	202.90	3,838	8,178
202.39	3,459	6,317	202.91	3,845	8,216
202.40	3,466	6,352	202.92	3,853	8,255
202.41	3,474	6,387	202.93	3,860	8,293
202.42	3,481	6,422	202.94	3,867	8,332
202.43	3,488	6,456	202.95	3,875	8,371
202.44	3,496	6,491	202.96	3,882	8,410
202.45	3,503	6,526	202.97	3,890	8,448
202.46	3,511	6,561	202.98	3,897	8,487
202.47	3,518	6,596	202.99	3,905	8,526
202.48	3,526	6,632	203.00	3,912	8,566
202.49	3,533	6,667	203.01	3,920	8,605
202.50	3,541	6,702	203.02	3,928	8,644
202.51	3,548	6,738	203.03	3,936	8,683
202.52	3,555	6,773	203.04	3,944	8,723
202.53	3,563	6,809	203.05	3,953	8,762
202.54	3,570	6,845	203.06	3,961	8,802
202.55	3,578	6,880	203.07	3,969	8,841
202.56	3,585	6,916	203.08	3,977	8,881
202.57	3,593	6,952	203.09	3,985	8,921
202.58	3,600	6,988	203.10	3,993	8,961
202.59	3,607	7,024	203.11	4,001	9,001

Stage-Area-Storage for Pond B-4A: Basin #4A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
203.12	4,009	9,041	203.64	4,432	11,235
203.13	4,018	9,081	203.65	4,440	11,280
203.14	4,026	9,121	203.66	4,448	11,324
203.15	4,034	9,161	203.67	4,456	11,369
203.16	4,042	9,202	203.68	4,464	11,413
203.17	4,050	9,242	203.69	4,472	11,458
203.18	4,058	9,283	203.70	4,480	11,503
203.19	4,066	9,323	203.71	4,489	11,548
203.20	4,074	9,364	203.72	4,497	11,593
203.21	4,083	9,405	203.73	4,505	11,638
203.22	4,091	9,446	203.74	4,513	11,683
203.23	4,099	9,487	203.75	4,521	11,728
203.24	4,107	9,528	203.76	4,529	11,773
203.25	4,115	9,569	203.77	4,537	11,818
203.26	4,123	9,610	203.78	4,545	11,864
203.27	4,131	9,651	203.79	4,553	11,909
203.28	4,139	9,693	203.80	4,562	11,955
203.29	4,147	9,734	203.81	4,570	12,001
203.30	4,156	9,776	203.82	4,578	12,046
203.31	4,164	9,817	203.83	4,586	12,092
203.32	4,172	9,859	203.84	4,594	12,138
203.33	4,180	9,901	203.85	4,602	12,184
203.34	4,188	9,943	203.86	4,610	12,230
203.35	4,196	9,984	203.87	4,618	12,276
203.36	4,204	10,026	203.88	4,627	12,322
203.37	4,212	10,069	203.89	4,635	12,369
203.38	4,221	10,111	203.90	4,643	12,415
203.39	4,229	10,153	203.91	4,651	12,462
203.40	4,237	10,195	203.92	4,659	12,508
203.41	4,245	10,238	203.93	4,667	12,555
203.42	4,253	10,280	203.94	4,675	12,602
203.43	4,261	10,323	203.95	4,683	12,648
203.44	4,269	10,365	203.96	4,692	12,695
203.45	4,277	10,408	203.97	4,700	12,742
203.46	4,286	10,451	203.98	4,708	12,789
203.47	4,294	10,494	203.99	4,716	12,836
203.48	4,302	10,537	204.00	4,724	12,884
203.49	4,310	10,580	204.01	4,733	12,931
203.50	4,318	10,623	204.02	4,742	12,978
203.51	4,326	10,666	204.03	4,750	13,026
203.52	4,334	10,710	204.04	4,759	13,073
203.53	4,342	10,753	204.05	4,768	13,121
203.54	4,350	10,796	204.06	4,777	13,169
203.55	4,359	10,840	204.07	4,786	13,216
203.56	4,367	10,884	204.08	4,794	13,264
203.57	4,375	10,927	204.09	4,803	13,312
203.58	4,383	10,971	204.10	4,812	13,360
203.59	4,391	11,015	204.11	4,821	13,408
203.60	4,399	11,059	204.12	4,830	13,457
203.61	4,407	11,103	204.13	4,838	13,505
203.62	4,415	11,147	204.14	4,847	13,553
203.63	4,424	11,191	204.15	4,856	13,602

Stage-Area-Storage for Pond B-4A: Basin #4A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
204.16	4,865	13,651	204.68	5,322	16,299
204.17	4,874	13,699	204.69	5,331	16,353
204.18	4,882	13,748	204.70	5,340	16,406
204.19	4,891	13,797	204.71	5,349	16,459
204.20	4,900	13,846	204.72	5,358	16,513
204.21	4,909	13,895	204.73	5,366	16,566
204.22	4,918	13,944	204.74	5,375	16,620
204.23	4,926	13,993	204.75	5,384	16,674
204.24	4,935	14,043	204.76	5,393	16,728
204.25	4,944	14,092	204.77	5,402	16,782
204.26	4,953	14,141	204.78	5,410	16,836
204.27	4,962	14,191	204.79	5,419	16,890
204.28	4,970	14,241	204.80	5,428	16,944
204.29	4,979	14,290	204.81	5,437	16,999
204.30	4,988	14,340	204.82	5,446	17,053
204.31	4,997	14,390	204.83	5,454	17,108
204.32	5,006	14,440	204.84	5,463	17,162
204.33	5,014	14,490	204.85	5,472	17,217
204.34	5,023	14,541	204.86	5,481	17,272
204.35	5,032	14,591	204.87	5,490	17,326
204.36	5,041	14,641	204.88	5,498	17,381
204.37	5,050	14,692	204.89	5,507	17,436
204.38	5,058	14,742	204.90	5,516	17,492
204.39	5,067	14,793	204.91	5,525	17,547
204.40	5,076	14,844	204.92	5,534	17,602
204.41	5,085	14,894	204.93	5,542	17,657
204.42	5,094	14,945	204.94	5,551	17,713
204.43	5,102	14,996	204.95	5,560	17,768
204.44	5,111	15,047	204.96	5,569	17,824
204.45	5,120	15,098	204.97	5,578	17,880
204.46	5,129	15,150	204.98	5,586	17,936
204.47	5,138	15,201	204.99	5,595	17,992
204.48	5,146	15,252	205.00	5,604	18,048
204.49	5,155	15,304	205.01	5,613	18,104
204.50	5,164	15,356	205.02	5,622	18,160
204.51	5,173	15,407	205.03	5,631	18,216
204.52	5,182	15,459	205.04	5,640	18,272
204.53	5,190	15,511	205.05	5,649	18,329
204.54	5,199	15,563	205.06	5,658	18,385
204.55	5,208	15,615	205.07	5,667	18,442
204.56	5,217	15,667	205.08	5,676	18,499
204.57	5,226	15,719	205.09	5,686	18,556
204.58	5,234	15,771	205.10	5,695	18,612
204.59	5,243	15,824	205.11	5,704	18,669
204.60	5,252	15,876	205.12	5,713	18,727
204.61	5,261	15,929	205.13	5,722	18,784
204.62	5,270	15,982	205.14	5,731	18,841
204.63	5,278	16,034	205.15	5,740	18,898
204.64	5,287	16,087	205.16	5,749	18,956
204.65	5,296	16,140	205.17	5,758	19,013
204.66	5,305	16,193	205.18	5,767	19,071
204.67	5,314	16,246	205.19	5,776	19,129

Stage-Area-Storage for Pond B-4A: Basin #4A (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
205.20	5,785	19,186	205.72	6,057	20,963
205.21	5,794	19,244	205.73	6,057	20,963
205.22	5,803	19,302	205.74	6,057	20,963
205.23	5,812	19,360	205.75	6,057	20,963
205.24	5,821	19,419	205.76	6,057	20,963
205.25	5,831	19,477	205.77	6,057	20,963
205.26	5,840	19,535	205.78	6,057	20,963
205.27	5,849	19,594			
205.28	5,858	19,652			
205.29	5,867	19,711			
205.30	5,876	19,769			
205.31	5,885	19,828			
205.32	5,894	19,887			
205.33	5,903	19,946			
205.34	5,912	20,005			
205.35	5,921	20,064			
205.36	5,930	20,124			
205.37	5,939	20,183			
205.38	5,948	20,242			
205.39	5,957	20,302			
205.40	5,966	20,362			
205.41	5,975	20,421			
205.42	5,985	20,481			
205.43	5,994	20,541			
205.44	6,003	20,601			
205.45	6,012	20,661			
205.46	6,021	20,721			
205.47	6,030	20,781			
205.48	6,039	20,842			
205.49	6,048	20,902			
205.50	6,057	20,963			
205.51	6,057	20,963			
205.52	6,057	20,963			
205.53	6,057	20,963			
205.54	6,057	20,963			
205.55	6,057	20,963			
205.56	6,057	20,963			
205.57	6,057	20,963			
205.58	6,057	20,963			
205.59	6,057	20,963			
205.60	6,057	20,963			
205.61	6,057	20,963			
205.62	6,057	20,963			
205.63	6,057	20,963			
205.64	6,057	20,963			
205.65	6,057	20,963			
205.66	6,057	20,963			
205.67	6,057	20,963			
205.68	6,057	20,963			
205.69	6,057	20,963			
205.70	6,057	20,963			
205.71	6,057	20,963			

Summary for Pond B-4B: Basin #4B

Inflow Area = 2.331 ac, 36.89% Impervious, Inflow Depth = 6.52" for Current 100 yr event
 Inflow = 15.55 cfs @ 12.17 hrs, Volume= 1.267 af
 Outflow = 16.36 cfs @ 12.21 hrs, Volume= 0.747 af, Atten= 0%, Lag= 2.6 min
 Primary = 16.36 cfs @ 12.21 hrs, Volume= 0.747 af
 Routed to Pond B-5 : Basin #5

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 205.74' @ 12.22 hrs Surf.Area= 6,934 sf Storage= 22,995 cf

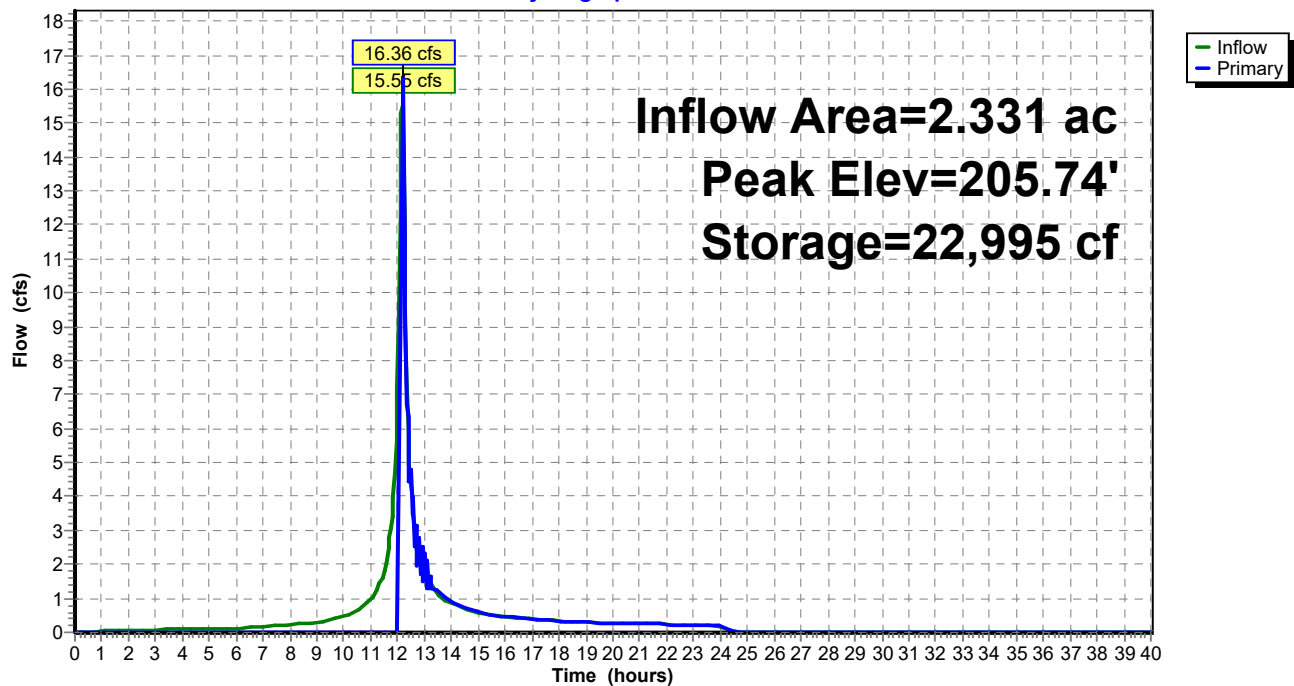
Plug-Flow detention time= 214.4 min calculated for 0.746 af (59% of inflow)
 Center-of-Mass det. time= 101.9 min (886.4 - 784.5)

Volume	Invert	Avail.Storage	Storage Description
#1	200.00'	22,995 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
200.00	1,852	0	0
201.00	2,571	2,212	2,212
202.00	3,384	2,978	5,189
203.00	4,292	3,838	9,027
204.00	5,294	4,793	13,820
205.00	6,393	5,844	19,664
205.50	6,934	3,332	22,995

Device	Routing	Invert	Outlet Devices
#1	Primary	205.45'	50.0' long + 3.0 ' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=14.21 cfs @ 12.21 hrs HW=205.69' (Free Discharge)

↑ **1=Broad-Crested Rectangular Weir**(Weir Controls 14.21 cfs @ 1.16 fps)

Pond B-4B: Basin #4B**Hydrograph**

Stage-Discharge for Pond B-4B: Basin #4B

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
200.00	0.00	200.52	0.00	201.04	0.00	201.56	0.00
200.01	0.00	200.53	0.00	201.05	0.00	201.57	0.00
200.02	0.00	200.54	0.00	201.06	0.00	201.58	0.00
200.03	0.00	200.55	0.00	201.07	0.00	201.59	0.00
200.04	0.00	200.56	0.00	201.08	0.00	201.60	0.00
200.05	0.00	200.57	0.00	201.09	0.00	201.61	0.00
200.06	0.00	200.58	0.00	201.10	0.00	201.62	0.00
200.07	0.00	200.59	0.00	201.11	0.00	201.63	0.00
200.08	0.00	200.60	0.00	201.12	0.00	201.64	0.00
200.09	0.00	200.61	0.00	201.13	0.00	201.65	0.00
200.10	0.00	200.62	0.00	201.14	0.00	201.66	0.00
200.11	0.00	200.63	0.00	201.15	0.00	201.67	0.00
200.12	0.00	200.64	0.00	201.16	0.00	201.68	0.00
200.13	0.00	200.65	0.00	201.17	0.00	201.69	0.00
200.14	0.00	200.66	0.00	201.18	0.00	201.70	0.00
200.15	0.00	200.67	0.00	201.19	0.00	201.71	0.00
200.16	0.00	200.68	0.00	201.20	0.00	201.72	0.00
200.17	0.00	200.69	0.00	201.21	0.00	201.73	0.00
200.18	0.00	200.70	0.00	201.22	0.00	201.74	0.00
200.19	0.00	200.71	0.00	201.23	0.00	201.75	0.00
200.20	0.00	200.72	0.00	201.24	0.00	201.76	0.00
200.21	0.00	200.73	0.00	201.25	0.00	201.77	0.00
200.22	0.00	200.74	0.00	201.26	0.00	201.78	0.00
200.23	0.00	200.75	0.00	201.27	0.00	201.79	0.00
200.24	0.00	200.76	0.00	201.28	0.00	201.80	0.00
200.25	0.00	200.77	0.00	201.29	0.00	201.81	0.00
200.26	0.00	200.78	0.00	201.30	0.00	201.82	0.00
200.27	0.00	200.79	0.00	201.31	0.00	201.83	0.00
200.28	0.00	200.80	0.00	201.32	0.00	201.84	0.00
200.29	0.00	200.81	0.00	201.33	0.00	201.85	0.00
200.30	0.00	200.82	0.00	201.34	0.00	201.86	0.00
200.31	0.00	200.83	0.00	201.35	0.00	201.87	0.00
200.32	0.00	200.84	0.00	201.36	0.00	201.88	0.00
200.33	0.00	200.85	0.00	201.37	0.00	201.89	0.00
200.34	0.00	200.86	0.00	201.38	0.00	201.90	0.00
200.35	0.00	200.87	0.00	201.39	0.00	201.91	0.00
200.36	0.00	200.88	0.00	201.40	0.00	201.92	0.00
200.37	0.00	200.89	0.00	201.41	0.00	201.93	0.00
200.38	0.00	200.90	0.00	201.42	0.00	201.94	0.00
200.39	0.00	200.91	0.00	201.43	0.00	201.95	0.00
200.40	0.00	200.92	0.00	201.44	0.00	201.96	0.00
200.41	0.00	200.93	0.00	201.45	0.00	201.97	0.00
200.42	0.00	200.94	0.00	201.46	0.00	201.98	0.00
200.43	0.00	200.95	0.00	201.47	0.00	201.99	0.00
200.44	0.00	200.96	0.00	201.48	0.00	202.00	0.00
200.45	0.00	200.97	0.00	201.49	0.00	202.01	0.00
200.46	0.00	200.98	0.00	201.50	0.00	202.02	0.00
200.47	0.00	200.99	0.00	201.51	0.00	202.03	0.00
200.48	0.00	201.00	0.00	201.52	0.00	202.04	0.00
200.49	0.00	201.01	0.00	201.53	0.00	202.05	0.00
200.50	0.00	201.02	0.00	201.54	0.00	202.06	0.00
200.51	0.00	201.03	0.00	201.55	0.00	202.07	0.00

Stage-Discharge for Pond B-4B: Basin #4B (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
202.08	0.00	202.60	0.00	203.12	0.00	203.64	0.00
202.09	0.00	202.61	0.00	203.13	0.00	203.65	0.00
202.10	0.00	202.62	0.00	203.14	0.00	203.66	0.00
202.11	0.00	202.63	0.00	203.15	0.00	203.67	0.00
202.12	0.00	202.64	0.00	203.16	0.00	203.68	0.00
202.13	0.00	202.65	0.00	203.17	0.00	203.69	0.00
202.14	0.00	202.66	0.00	203.18	0.00	203.70	0.00
202.15	0.00	202.67	0.00	203.19	0.00	203.71	0.00
202.16	0.00	202.68	0.00	203.20	0.00	203.72	0.00
202.17	0.00	202.69	0.00	203.21	0.00	203.73	0.00
202.18	0.00	202.70	0.00	203.22	0.00	203.74	0.00
202.19	0.00	202.71	0.00	203.23	0.00	203.75	0.00
202.20	0.00	202.72	0.00	203.24	0.00	203.76	0.00
202.21	0.00	202.73	0.00	203.25	0.00	203.77	0.00
202.22	0.00	202.74	0.00	203.26	0.00	203.78	0.00
202.23	0.00	202.75	0.00	203.27	0.00	203.79	0.00
202.24	0.00	202.76	0.00	203.28	0.00	203.80	0.00
202.25	0.00	202.77	0.00	203.29	0.00	203.81	0.00
202.26	0.00	202.78	0.00	203.30	0.00	203.82	0.00
202.27	0.00	202.79	0.00	203.31	0.00	203.83	0.00
202.28	0.00	202.80	0.00	203.32	0.00	203.84	0.00
202.29	0.00	202.81	0.00	203.33	0.00	203.85	0.00
202.30	0.00	202.82	0.00	203.34	0.00	203.86	0.00
202.31	0.00	202.83	0.00	203.35	0.00	203.87	0.00
202.32	0.00	202.84	0.00	203.36	0.00	203.88	0.00
202.33	0.00	202.85	0.00	203.37	0.00	203.89	0.00
202.34	0.00	202.86	0.00	203.38	0.00	203.90	0.00
202.35	0.00	202.87	0.00	203.39	0.00	203.91	0.00
202.36	0.00	202.88	0.00	203.40	0.00	203.92	0.00
202.37	0.00	202.89	0.00	203.41	0.00	203.93	0.00
202.38	0.00	202.90	0.00	203.42	0.00	203.94	0.00
202.39	0.00	202.91	0.00	203.43	0.00	203.95	0.00
202.40	0.00	202.92	0.00	203.44	0.00	203.96	0.00
202.41	0.00	202.93	0.00	203.45	0.00	203.97	0.00
202.42	0.00	202.94	0.00	203.46	0.00	203.98	0.00
202.43	0.00	202.95	0.00	203.47	0.00	203.99	0.00
202.44	0.00	202.96	0.00	203.48	0.00	204.00	0.00
202.45	0.00	202.97	0.00	203.49	0.00	204.01	0.00
202.46	0.00	202.98	0.00	203.50	0.00	204.02	0.00
202.47	0.00	202.99	0.00	203.51	0.00	204.03	0.00
202.48	0.00	203.00	0.00	203.52	0.00	204.04	0.00
202.49	0.00	203.01	0.00	203.53	0.00	204.05	0.00
202.50	0.00	203.02	0.00	203.54	0.00	204.06	0.00
202.51	0.00	203.03	0.00	203.55	0.00	204.07	0.00
202.52	0.00	203.04	0.00	203.56	0.00	204.08	0.00
202.53	0.00	203.05	0.00	203.57	0.00	204.09	0.00
202.54	0.00	203.06	0.00	203.58	0.00	204.10	0.00
202.55	0.00	203.07	0.00	203.59	0.00	204.11	0.00
202.56	0.00	203.08	0.00	203.60	0.00	204.12	0.00
202.57	0.00	203.09	0.00	203.61	0.00	204.13	0.00
202.58	0.00	203.10	0.00	203.62	0.00	204.14	0.00
202.59	0.00	203.11	0.00	203.63	0.00	204.15	0.00

Stage-Discharge for Pond B-4B: Basin #4B (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
204.16	0.00	204.68	0.00	205.20	0.00	205.72	17.03
204.17	0.00	204.69	0.00	205.21	0.00		
204.18	0.00	204.70	0.00	205.22	0.00		
204.19	0.00	204.71	0.00	205.23	0.00		
204.20	0.00	204.72	0.00	205.24	0.00		
204.21	0.00	204.73	0.00	205.25	0.00		
204.22	0.00	204.74	0.00	205.26	0.00		
204.23	0.00	204.75	0.00	205.27	0.00		
204.24	0.00	204.76	0.00	205.28	0.00		
204.25	0.00	204.77	0.00	205.29	0.00		
204.26	0.00	204.78	0.00	205.30	0.00		
204.27	0.00	204.79	0.00	205.31	0.00		
204.28	0.00	204.80	0.00	205.32	0.00		
204.29	0.00	204.81	0.00	205.33	0.00		
204.30	0.00	204.82	0.00	205.34	0.00		
204.31	0.00	204.83	0.00	205.35	0.00		
204.32	0.00	204.84	0.00	205.36	0.00		
204.33	0.00	204.85	0.00	205.37	0.00		
204.34	0.00	204.86	0.00	205.38	0.00		
204.35	0.00	204.87	0.00	205.39	0.00		
204.36	0.00	204.88	0.00	205.40	0.00		
204.37	0.00	204.89	0.00	205.41	0.00		
204.38	0.00	204.90	0.00	205.42	0.00		
204.39	0.00	204.91	0.00	205.43	0.00		
204.40	0.00	204.92	0.00	205.44	0.00		
204.41	0.00	204.93	0.00	205.45	0.00		
204.42	0.00	204.94	0.00	205.46	0.12		
204.43	0.00	204.95	0.00	205.47	0.33		
204.44	0.00	204.96	0.00	205.48	0.61		
204.45	0.00	204.97	0.00	205.49	0.94		
204.46	0.00	204.98	0.00	205.50	1.31		
204.47	0.00	204.99	0.00	205.51	1.72		
204.48	0.00	205.00	0.00	205.52	2.17		
204.49	0.00	205.01	0.00	205.53	2.66		
204.50	0.00	205.02	0.00	205.54	3.17		
204.51	0.00	205.03	0.00	205.55	3.72		
204.52	0.00	205.04	0.00	205.56	4.29		
204.53	0.00	205.05	0.00	205.57	4.89		
204.54	0.00	205.06	0.00	205.58	5.52		
204.55	0.00	205.07	0.00	205.59	6.17		
204.56	0.00	205.08	0.00	205.60	6.85		
204.57	0.00	205.09	0.00	205.61	7.55		
204.58	0.00	205.10	0.00	205.62	8.27		
204.59	0.00	205.11	0.00	205.63	9.01		
204.60	0.00	205.12	0.00	205.64	9.78		
204.61	0.00	205.13	0.00	205.65	10.57		
204.62	0.00	205.14	0.00	205.66	11.41		
204.63	0.00	205.15	0.00	205.67	12.28		
204.64	0.00	205.16	0.00	205.68	13.18		
204.65	0.00	205.17	0.00	205.69	14.11		
204.66	0.00	205.18	0.00	205.70	15.05		
204.67	0.00	205.19	0.00	205.71	16.03		

Stage-Area-Storage for Pond B-4B: Basin #4B

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
200.00	1,852	0	200.52	2,226	1,060
200.01	1,859	19	200.53	2,233	1,083
200.02	1,866	37	200.54	2,240	1,105
200.03	1,874	56	200.55	2,247	1,127
200.04	1,881	75	200.56	2,255	1,150
200.05	1,888	93	200.57	2,262	1,172
200.06	1,895	112	200.58	2,269	1,195
200.07	1,902	131	200.59	2,276	1,218
200.08	1,910	150	200.60	2,283	1,241
200.09	1,917	170	200.61	2,291	1,263
200.10	1,924	189	200.62	2,298	1,286
200.11	1,931	208	200.63	2,305	1,309
200.12	1,938	227	200.64	2,312	1,333
200.13	1,945	247	200.65	2,319	1,356
200.14	1,953	266	200.66	2,327	1,379
200.15	1,960	286	200.67	2,334	1,402
200.16	1,967	306	200.68	2,341	1,426
200.17	1,974	325	200.69	2,348	1,449
200.18	1,981	345	200.70	2,355	1,473
200.19	1,989	365	200.71	2,362	1,496
200.20	1,996	385	200.72	2,370	1,520
200.21	2,003	405	200.73	2,377	1,544
200.22	2,010	425	200.74	2,384	1,567
200.23	2,017	445	200.75	2,391	1,591
200.24	2,025	465	200.76	2,398	1,615
200.25	2,032	485	200.77	2,406	1,639
200.26	2,039	506	200.78	2,413	1,663
200.27	2,046	526	200.79	2,420	1,687
200.28	2,053	547	200.80	2,427	1,712
200.29	2,061	567	200.81	2,434	1,736
200.30	2,068	588	200.82	2,442	1,760
200.31	2,075	609	200.83	2,449	1,785
200.32	2,082	629	200.84	2,456	1,809
200.33	2,089	650	200.85	2,463	1,834
200.34	2,096	671	200.86	2,470	1,859
200.35	2,104	692	200.87	2,478	1,883
200.36	2,111	713	200.88	2,485	1,908
200.37	2,118	734	200.89	2,492	1,933
200.38	2,125	756	200.90	2,499	1,958
200.39	2,132	777	200.91	2,506	1,983
200.40	2,140	798	200.92	2,513	2,008
200.41	2,147	820	200.93	2,521	2,033
200.42	2,154	841	200.94	2,528	2,059
200.43	2,161	863	200.95	2,535	2,084
200.44	2,168	884	200.96	2,542	2,109
200.45	2,176	906	200.97	2,549	2,135
200.46	2,183	928	200.98	2,557	2,160
200.47	2,190	950	200.99	2,564	2,186
200.48	2,197	972	201.00	2,571	2,212
200.49	2,204	994	201.01	2,579	2,237
200.50	2,212	1,016	201.02	2,587	2,263
200.51	2,219	1,038	201.03	2,595	2,289

Stage-Area-Storage for Pond B-4B: Basin #4B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
201.04	2,604	2,315	201.56	3,026	3,779
201.05	2,612	2,341	201.57	3,034	3,809
201.06	2,620	2,367	201.58	3,043	3,839
201.07	2,628	2,393	201.59	3,051	3,870
201.08	2,636	2,420	201.60	3,059	3,900
201.09	2,644	2,446	201.61	3,067	3,931
201.10	2,652	2,473	201.62	3,075	3,962
201.11	2,660	2,499	201.63	3,083	3,993
201.12	2,669	2,526	201.64	3,091	4,023
201.13	2,677	2,553	201.65	3,099	4,054
201.14	2,685	2,579	201.66	3,108	4,085
201.15	2,693	2,606	201.67	3,116	4,117
201.16	2,701	2,633	201.68	3,124	4,148
201.17	2,709	2,660	201.69	3,132	4,179
201.18	2,717	2,687	201.70	3,140	4,210
201.19	2,725	2,715	201.71	3,148	4,242
201.20	2,734	2,742	201.72	3,156	4,273
201.21	2,742	2,769	201.73	3,164	4,305
201.22	2,750	2,797	201.74	3,173	4,337
201.23	2,758	2,824	201.75	3,181	4,368
201.24	2,766	2,852	201.76	3,189	4,400
201.25	2,774	2,880	201.77	3,197	4,432
201.26	2,782	2,907	201.78	3,205	4,464
201.27	2,791	2,935	201.79	3,213	4,496
201.28	2,799	2,963	201.80	3,221	4,528
201.29	2,807	2,991	201.81	3,230	4,561
201.30	2,815	3,019	201.82	3,238	4,593
201.31	2,823	3,048	201.83	3,246	4,625
201.32	2,831	3,076	201.84	3,254	4,658
201.33	2,839	3,104	201.85	3,262	4,691
201.34	2,847	3,133	201.86	3,270	4,723
201.35	2,856	3,161	201.87	3,278	4,756
201.36	2,864	3,190	201.88	3,286	4,789
201.37	2,872	3,218	201.89	3,295	4,822
201.38	2,880	3,247	201.90	3,303	4,855
201.39	2,888	3,276	201.91	3,311	4,888
201.40	2,896	3,305	201.92	3,319	4,921
201.41	2,904	3,334	201.93	3,327	4,954
201.42	2,912	3,363	201.94	3,335	4,987
201.43	2,921	3,392	201.95	3,343	5,021
201.44	2,929	3,421	201.96	3,351	5,054
201.45	2,937	3,451	201.97	3,360	5,088
201.46	2,945	3,480	201.98	3,368	5,121
201.47	2,953	3,510	201.99	3,376	5,155
201.48	2,961	3,539	202.00	3,384	5,189
201.49	2,969	3,569	202.01	3,393	5,223
201.50	2,978	3,599	202.02	3,402	5,257
201.51	2,986	3,628	202.03	3,411	5,291
201.52	2,994	3,658	202.04	3,420	5,325
201.53	3,002	3,688	202.05	3,429	5,359
201.54	3,010	3,718	202.06	3,438	5,394
201.55	3,018	3,749	202.07	3,448	5,428

Stage-Area-Storage for Pond B-4B: Basin #4B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
202.08	3,457	5,463	202.60	3,929	7,383
202.09	3,466	5,497	202.61	3,938	7,422
202.10	3,475	5,532	202.62	3,947	7,462
202.11	3,484	5,567	202.63	3,956	7,501
202.12	3,493	5,602	202.64	3,965	7,541
202.13	3,502	5,637	202.65	3,974	7,580
202.14	3,511	5,672	202.66	3,983	7,620
202.15	3,520	5,707	202.67	3,992	7,660
202.16	3,529	5,742	202.68	4,001	7,700
202.17	3,538	5,777	202.69	4,011	7,740
202.18	3,547	5,813	202.70	4,020	7,780
202.19	3,557	5,848	202.71	4,029	7,821
202.20	3,566	5,884	202.72	4,038	7,861
202.21	3,575	5,920	202.73	4,047	7,901
202.22	3,584	5,955	202.74	4,056	7,942
202.23	3,593	5,991	202.75	4,065	7,982
202.24	3,602	6,027	202.76	4,074	8,023
202.25	3,611	6,063	202.77	4,083	8,064
202.26	3,620	6,100	202.78	4,092	8,105
202.27	3,629	6,136	202.79	4,101	8,146
202.28	3,638	6,172	202.80	4,110	8,187
202.29	3,647	6,209	202.81	4,119	8,228
202.30	3,656	6,245	202.82	4,129	8,269
202.31	3,665	6,282	202.83	4,138	8,310
202.32	3,675	6,318	202.84	4,147	8,352
202.33	3,684	6,355	202.85	4,156	8,393
202.34	3,693	6,392	202.86	4,165	8,435
202.35	3,702	6,429	202.87	4,174	8,477
202.36	3,711	6,466	202.88	4,183	8,518
202.37	3,720	6,503	202.89	4,192	8,560
202.38	3,729	6,540	202.90	4,201	8,602
202.39	3,738	6,578	202.91	4,210	8,644
202.40	3,747	6,615	202.92	4,219	8,687
202.41	3,756	6,653	202.93	4,228	8,729
202.42	3,765	6,690	202.94	4,238	8,771
202.43	3,774	6,728	202.95	4,247	8,814
202.44	3,784	6,766	202.96	4,256	8,856
202.45	3,793	6,804	202.97	4,265	8,899
202.46	3,802	6,842	202.98	4,274	8,941
202.47	3,811	6,880	202.99	4,283	8,984
202.48	3,820	6,918	203.00	4,292	9,027
202.49	3,829	6,956	203.01	4,302	9,070
202.50	3,838	6,995	203.02	4,312	9,113
202.51	3,847	7,033	203.03	4,322	9,156
202.52	3,856	7,071	203.04	4,332	9,199
202.53	3,865	7,110	203.05	4,342	9,243
202.54	3,874	7,149	203.06	4,352	9,286
202.55	3,883	7,188	203.07	4,362	9,330
202.56	3,892	7,226	203.08	4,372	9,374
202.57	3,902	7,265	203.09	4,382	9,417
202.58	3,911	7,304	203.10	4,392	9,461
202.59	3,920	7,344	203.11	4,402	9,505

Stage-Area-Storage for Pond B-4B: Basin #4B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
203.12	4,412	9,549	203.64	4,933	11,979
203.13	4,422	9,593	203.65	4,943	12,028
203.14	4,432	9,638	203.66	4,953	12,078
203.15	4,442	9,682	203.67	4,963	12,128
203.16	4,452	9,727	203.68	4,973	12,177
203.17	4,462	9,771	203.69	4,983	12,227
203.18	4,472	9,816	203.70	4,993	12,277
203.19	4,482	9,861	203.71	5,003	12,327
203.20	4,492	9,905	203.72	5,013	12,377
203.21	4,502	9,950	203.73	5,023	12,427
203.22	4,512	9,995	203.74	5,033	12,477
203.23	4,522	10,041	203.75	5,044	12,528
203.24	4,532	10,086	203.76	5,054	12,578
203.25	4,543	10,131	203.77	5,064	12,629
203.26	4,553	10,177	203.78	5,074	12,680
203.27	4,563	10,222	203.79	5,084	12,730
203.28	4,573	10,268	203.80	5,094	12,781
203.29	4,583	10,314	203.81	5,104	12,832
203.30	4,593	10,360	203.82	5,114	12,883
203.31	4,603	10,406	203.83	5,124	12,934
203.32	4,613	10,452	203.84	5,134	12,986
203.33	4,623	10,498	203.85	5,144	13,037
203.34	4,633	10,544	203.86	5,154	13,089
203.35	4,643	10,591	203.87	5,164	13,140
203.36	4,653	10,637	203.88	5,174	13,192
203.37	4,663	10,684	203.89	5,184	13,244
203.38	4,673	10,730	203.90	5,194	13,296
203.39	4,683	10,777	203.91	5,204	13,348
203.40	4,693	10,824	203.92	5,214	13,400
203.41	4,703	10,871	203.93	5,224	13,452
203.42	4,713	10,918	203.94	5,234	13,504
203.43	4,723	10,965	203.95	5,244	13,557
203.44	4,733	11,012	203.96	5,254	13,609
203.45	4,743	11,060	203.97	5,264	13,662
203.46	4,753	11,107	203.98	5,274	13,714
203.47	4,763	11,155	203.99	5,284	13,767
203.48	4,773	11,203	204.00	5,294	13,820
203.49	4,783	11,250	204.01	5,305	13,873
203.50	4,793	11,298	204.02	5,316	13,926
203.51	4,803	11,346	204.03	5,327	13,979
203.52	4,813	11,394	204.04	5,338	14,033
203.53	4,823	11,442	204.05	5,349	14,086
203.54	4,833	11,491	204.06	5,360	14,140
203.55	4,843	11,539	204.07	5,371	14,193
203.56	4,853	11,588	204.08	5,382	14,247
203.57	4,863	11,636	204.09	5,393	14,301
203.58	4,873	11,685	204.10	5,404	14,355
203.59	4,883	11,734	204.11	5,415	14,409
203.60	4,893	11,783	204.12	5,426	14,463
203.61	4,903	11,832	204.13	5,437	14,518
203.62	4,913	11,881	204.14	5,448	14,572
203.63	4,923	11,930	204.15	5,459	14,626

Stage-Area-Storage for Pond B-4B: Basin #4B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
204.16	5,470	14,681	204.68	6,041	17,674
204.17	5,481	14,736	204.69	6,052	17,734
204.18	5,492	14,791	204.70	6,063	17,795
204.19	5,503	14,846	204.71	6,074	17,856
204.20	5,514	14,901	204.72	6,085	17,917
204.21	5,525	14,956	204.73	6,096	17,977
204.22	5,536	15,011	204.74	6,107	18,038
204.23	5,547	15,067	204.75	6,118	18,100
204.24	5,558	15,122	204.76	6,129	18,161
204.25	5,569	15,178	204.77	6,140	18,222
204.26	5,580	15,234	204.78	6,151	18,284
204.27	5,591	15,289	204.79	6,162	18,345
204.28	5,602	15,345	204.80	6,173	18,407
204.29	5,613	15,401	204.81	6,184	18,469
204.30	5,624	15,458	204.82	6,195	18,531
204.31	5,635	15,514	204.83	6,206	18,593
204.32	5,646	15,570	204.84	6,217	18,655
204.33	5,657	15,627	204.85	6,228	18,717
204.34	5,668	15,683	204.86	6,239	18,779
204.35	5,679	15,740	204.87	6,250	18,842
204.36	5,690	15,797	204.88	6,261	18,904
204.37	5,701	15,854	204.89	6,272	18,967
204.38	5,712	15,911	204.90	6,283	19,030
204.39	5,723	15,968	204.91	6,294	19,093
204.40	5,734	16,026	204.92	6,305	19,156
204.41	5,745	16,083	204.93	6,316	19,219
204.42	5,756	16,140	204.94	6,327	19,282
204.43	5,767	16,198	204.95	6,338	19,345
204.44	5,778	16,256	204.96	6,349	19,409
204.45	5,789	16,314	204.97	6,360	19,472
204.46	5,800	16,372	204.98	6,371	19,536
204.47	5,811	16,430	204.99	6,382	19,600
204.48	5,822	16,488	205.00	6,393	19,664
204.49	5,833	16,546	205.01	6,404	19,727
204.50	5,844	16,604	205.02	6,415	19,792
204.51	5,854	16,663	205.03	6,425	19,856
204.52	5,865	16,721	205.04	6,436	19,920
204.53	5,876	16,780	205.05	6,447	19,985
204.54	5,887	16,839	205.06	6,458	20,049
204.55	5,898	16,898	205.07	6,469	20,114
204.56	5,909	16,957	205.08	6,480	20,178
204.57	5,920	17,016	205.09	6,490	20,243
204.58	5,931	17,075	205.10	6,501	20,308
204.59	5,942	17,135	205.11	6,512	20,373
204.60	5,953	17,194	205.12	6,523	20,438
204.61	5,964	17,254	205.13	6,534	20,504
204.62	5,975	17,314	205.14	6,544	20,569
204.63	5,986	17,373	205.15	6,555	20,635
204.64	5,997	17,433	205.16	6,566	20,700
204.65	6,008	17,493	205.17	6,577	20,766
204.66	6,019	17,553	205.18	6,588	20,832
204.67	6,030	17,614	205.19	6,599	20,898

Stage-Area-Storage for Pond B-4B: Basin #4B (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
205.20	6,609	20,964	205.72	6,934	22,995
205.21	6,620	21,030			
205.22	6,631	21,096			
205.23	6,642	21,163			
205.24	6,653	21,229			
205.25	6,664	21,296			
205.26	6,674	21,362			
205.27	6,685	21,429			
205.28	6,696	21,496			
205.29	6,707	21,563			
205.30	6,718	21,630			
205.31	6,728	21,697			
205.32	6,739	21,765			
205.33	6,750	21,832			
205.34	6,761	21,900			
205.35	6,772	21,967			
205.36	6,783	22,035			
205.37	6,793	22,103			
205.38	6,804	22,171			
205.39	6,815	22,239			
205.40	6,826	22,307			
205.41	6,837	22,376			
205.42	6,847	22,444			
205.43	6,858	22,513			
205.44	6,869	22,581			
205.45	6,880	22,650			
205.46	6,891	22,719			
205.47	6,902	22,788			
205.48	6,912	22,857			
205.49	6,923	22,926			
205.50	6,934	22,995			
205.51	6,934	22,995			
205.52	6,934	22,995			
205.53	6,934	22,995			
205.54	6,934	22,995			
205.55	6,934	22,995			
205.56	6,934	22,995			
205.57	6,934	22,995			
205.58	6,934	22,995			
205.59	6,934	22,995			
205.60	6,934	22,995			
205.61	6,934	22,995			
205.62	6,934	22,995			
205.63	6,934	22,995			
205.64	6,934	22,995			
205.65	6,934	22,995			
205.66	6,934	22,995			
205.67	6,934	22,995			
205.68	6,934	22,995			
205.69	6,934	22,995			
205.70	6,934	22,995			
205.71	6,934	22,995			

Summary for Pond B-5: Basin #5

Inflow Area = 5.341 ac, 32.20% Impervious, Inflow Depth = 4.15" for Current 100 yr event
 Inflow = 42.06 cfs @ 12.20 hrs, Volume= 1.849 af
 Outflow = 8.23 cfs @ 12.59 hrs, Volume= 1.673 af, Atten= 80%, Lag= 23.0 min
 Primary = 8.23 cfs @ 12.59 hrs, Volume= 1.673 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 201.99' @ 12.59 hrs Surf.Area= 13,996 sf Storage= 25,465 cf

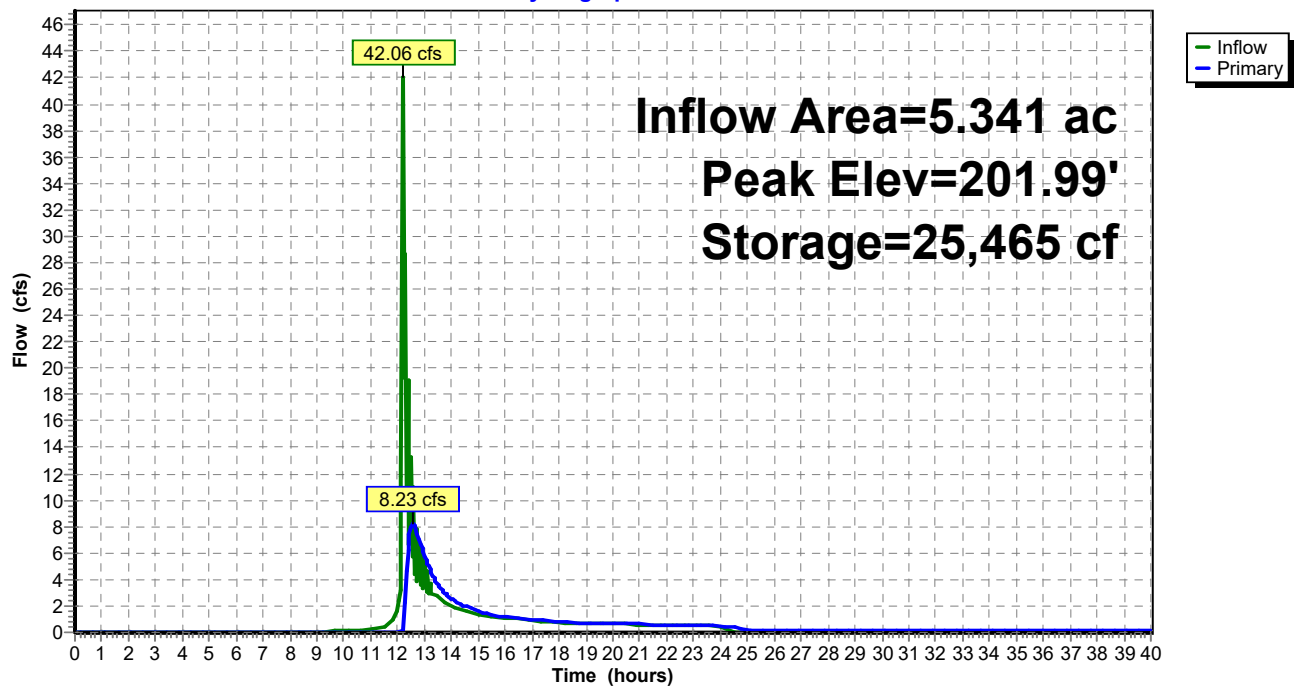
Plug-Flow detention time= 218.2 min calculated for 1.673 af (90% of inflow)
 Center-of-Mass det. time= 170.4 min (1,041.7 - 871.3)

Volume	Invert	Avail.Storage	Storage Description
#1	200.00'	91,976 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
200.00	11,631	0	0
201.00	12,798	12,215	12,215
202.00	14,009	13,404	25,618
203.00	15,262	14,636	40,254
204.00	16,558	15,910	56,164
205.00	17,896	17,227	73,391
206.00	19,275	18,586	91,976

Device	Routing	Invert	Outlet Devices
#1	Primary	198.65'	18.0" Round Culvert L= 70.0' Ke= 0.500 Inlet / Outlet Invert= 198.65' / 196.00' S= 0.0379 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	200.02'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	201.25'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	205.00'	50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=8.22 cfs @ 12.59 hrs HW=201.99' (Free Discharge)

- 1=Culvert (Passes 8.22 cfs of 13.69 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.22 cfs @ 6.57 fps)
 3=Sharp-Crested Rectangular Weir (Weir Controls 7.99 cfs @ 2.81 fps)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-5: Basin #5**Hydrograph**

Stage-Discharge for Pond B-5: Basin #5

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
200.00	0.00	200.52	0.10	201.04	0.16	201.56	2.42
200.01	0.00	200.53	0.10	201.05	0.16	201.57	2.53
200.02	0.00	200.54	0.11	201.06	0.16	201.58	2.64
200.03	0.00	200.55	0.11	201.07	0.16	201.59	2.75
200.04	0.00	200.56	0.11	201.08	0.16	201.60	2.86
200.05	0.00	200.57	0.11	201.09	0.16	201.61	2.97
200.06	0.00	200.58	0.11	201.10	0.16	201.62	3.09
200.07	0.00	200.59	0.11	201.11	0.16	201.63	3.21
200.08	0.01	200.60	0.11	201.12	0.16	201.64	3.33
200.09	0.01	200.61	0.11	201.13	0.16	201.65	3.45
200.10	0.01	200.62	0.12	201.14	0.17	201.66	3.57
200.11	0.01	200.63	0.12	201.15	0.17	201.67	3.69
200.12	0.02	200.64	0.12	201.16	0.17	201.68	3.81
200.13	0.02	200.65	0.12	201.17	0.17	201.69	3.94
200.14	0.02	200.66	0.12	201.18	0.17	201.70	4.07
200.15	0.03	200.67	0.12	201.19	0.17	201.71	4.19
200.16	0.03	200.68	0.12	201.20	0.17	201.72	4.32
200.17	0.03	200.69	0.12	201.21	0.17	201.73	4.45
200.18	0.04	200.70	0.12	201.22	0.17	201.74	4.59
200.19	0.04	200.71	0.13	201.23	0.17	201.75	4.72
200.20	0.05	200.72	0.13	201.24	0.17	201.76	4.85
200.21	0.05	200.73	0.13	201.25	0.17	201.77	4.99
200.22	0.05	200.74	0.13	201.26	0.19	201.78	5.12
200.23	0.05	200.75	0.13	201.27	0.21	201.79	5.26
200.24	0.06	200.76	0.13	201.28	0.24	201.80	5.40
200.25	0.06	200.77	0.13	201.29	0.28	201.81	5.54
200.26	0.06	200.78	0.13	201.30	0.32	201.82	5.68
200.27	0.06	200.79	0.13	201.31	0.37	201.83	5.82
200.28	0.06	200.80	0.13	201.32	0.42	201.84	5.97
200.29	0.07	200.81	0.14	201.33	0.48	201.85	6.11
200.30	0.07	200.82	0.14	201.34	0.53	201.86	6.26
200.31	0.07	200.83	0.14	201.35	0.59	201.87	6.40
200.32	0.07	200.84	0.14	201.36	0.66	201.88	6.55
200.33	0.07	200.85	0.14	201.37	0.72	201.89	6.70
200.34	0.08	200.86	0.14	201.38	0.79	201.90	6.85
200.35	0.08	200.87	0.14	201.39	0.87	201.91	7.00
200.36	0.08	200.88	0.14	201.40	0.94	201.92	7.15
200.37	0.08	200.89	0.14	201.41	1.02	201.93	7.31
200.38	0.08	200.90	0.14	201.42	1.10	201.94	7.46
200.39	0.08	200.91	0.15	201.43	1.18	201.95	7.61
200.40	0.09	200.92	0.15	201.44	1.26	201.96	7.77
200.41	0.09	200.93	0.15	201.45	1.35	201.97	7.93
200.42	0.09	200.94	0.15	201.46	1.44	201.98	8.08
200.43	0.09	200.95	0.15	201.47	1.53	201.99	8.24
200.44	0.09	200.96	0.15	201.48	1.62	202.00	8.40
200.45	0.09	200.97	0.15	201.49	1.71	202.01	8.56
200.46	0.10	200.98	0.15	201.50	1.81	202.02	8.72
200.47	0.10	200.99	0.15	201.51	1.90	202.03	8.89
200.48	0.10	201.00	0.15	201.52	2.00	202.04	9.05
200.49	0.10	201.01	0.15	201.53	2.11	202.05	9.21
200.50	0.10	201.02	0.16	201.54	2.21	202.06	9.38
200.51	0.10	201.03	0.16	201.55	2.31	202.07	9.54

Stage-Discharge for Pond B-5: Basin #5 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
202.08	9.71	202.60	15.22	203.12	16.41	203.64	17.52
202.09	9.88	202.61	15.24	203.13	16.43	203.65	17.54
202.10	10.05	202.62	15.27	203.14	16.46	203.66	17.56
202.11	10.21	202.63	15.29	203.15	16.48	203.67	17.58
202.12	10.38	202.64	15.32	203.16	16.50	203.68	17.60
202.13	10.56	202.65	15.34	203.17	16.52	203.69	17.62
202.14	10.73	202.66	15.36	203.18	16.54	203.70	17.64
202.15	10.90	202.67	15.39	203.19	16.56	203.71	17.66
202.16	11.07	202.68	15.41	203.20	16.59	203.72	17.69
202.17	11.25	202.69	15.43	203.21	16.61	203.73	17.71
202.18	11.42	202.70	15.46	203.22	16.63	203.74	17.73
202.19	11.60	202.71	15.48	203.23	16.65	203.75	17.75
202.20	11.77	202.72	15.50	203.24	16.67	203.76	17.77
202.21	11.95	202.73	15.53	203.25	16.70	203.77	17.79
202.22	12.13	202.74	15.55	203.26	16.72	203.78	17.81
202.23	12.31	202.75	15.57	203.27	16.74	203.79	17.83
202.24	12.49	202.76	15.60	203.28	16.76	203.80	17.85
202.25	12.67	202.77	15.62	203.29	16.78	203.81	17.87
202.26	12.85	202.78	15.64	203.30	16.80	203.82	17.89
202.27	13.03	202.79	15.67	203.31	16.82	203.83	17.91
202.28	13.21	202.80	15.69	203.32	16.85	203.84	17.93
202.29	13.39	202.81	15.71	203.33	16.87	203.85	17.95
202.30	13.58	202.82	15.74	203.34	16.89	203.86	17.97
202.31	13.76	202.83	15.76	203.35	16.91	203.87	17.99
202.32	13.95	202.84	15.78	203.36	16.93	203.88	18.01
202.33	14.13	202.85	15.80	203.37	16.95	203.89	18.03
202.34	14.32	202.86	15.83	203.38	16.97	203.90	18.05
202.35	14.51	202.87	15.85	203.39	17.00	203.91	18.07
202.36	14.64	202.88	15.87	203.40	17.02	203.92	18.09
202.37	14.66	202.89	15.90	203.41	17.04	203.93	18.11
202.38	14.69	202.90	15.92	203.42	17.06	203.94	18.13
202.39	14.71	202.91	15.94	203.43	17.08	203.95	18.15
202.40	14.74	202.92	15.96	203.44	17.10	203.96	18.17
202.41	14.76	202.93	15.99	203.45	17.12	203.97	18.19
202.42	14.79	202.94	16.01	203.46	17.14	203.98	18.21
202.43	14.81	202.95	16.03	203.47	17.17	203.99	18.23
202.44	14.84	202.96	16.05	203.48	17.19	204.00	18.25
202.45	14.86	202.97	16.08	203.49	17.21	204.01	18.27
202.46	14.88	202.98	16.10	203.50	17.23	204.02	18.29
202.47	14.91	202.99	16.12	203.51	17.25	204.03	18.31
202.48	14.93	203.00	16.14	203.52	17.27	204.04	18.33
202.49	14.96	203.01	16.17	203.53	17.29	204.05	18.35
202.50	14.98	203.02	16.19	203.54	17.31	204.06	18.37
202.51	15.01	203.03	16.21	203.55	17.33	204.07	18.39
202.52	15.03	203.04	16.23	203.56	17.35	204.08	18.41
202.53	15.05	203.05	16.26	203.57	17.38	204.09	18.43
202.54	15.08	203.06	16.28	203.58	17.40	204.10	18.45
202.55	15.10	203.07	16.30	203.59	17.42	204.11	18.47
202.56	15.13	203.08	16.32	203.60	17.44	204.12	18.49
202.57	15.15	203.09	16.34	203.61	17.46	204.13	18.51
202.58	15.17	203.10	16.37	203.62	17.48	204.14	18.52
202.59	15.20	203.11	16.39	203.63	17.50	204.15	18.54

Stage-Discharge for Pond B-5: Basin #5 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
204.16	18.56	204.68	19.55	205.20	31.06	205.72	106.34
204.17	18.58	204.69	19.57	205.21	31.92	205.73	108.14
204.18	18.60	204.70	19.59	205.22	32.81	205.74	109.95
204.19	18.62	204.71	19.61	205.23	33.73	205.75	111.78
204.20	18.64	204.72	19.63	205.24	34.67	205.76	113.62
204.21	18.66	204.73	19.64	205.25	35.63	205.77	115.47
204.22	18.68	204.74	19.66	205.26	36.62	205.78	117.33
204.23	18.70	204.75	19.68	205.27	37.64	205.79	119.20
204.24	18.72	204.76	19.70	205.28	38.68	205.80	121.09
204.25	18.74	204.77	19.72	205.29	39.75	205.81	123.03
204.26	18.76	204.78	19.74	205.30	40.84	205.82	124.98
204.27	18.78	204.79	19.75	205.31	41.95	205.83	126.94
204.28	18.80	204.80	19.77	205.32	43.09	205.84	128.92
204.29	18.82	204.81	19.79	205.33	44.25	205.85	130.90
204.30	18.83	204.82	19.81	205.34	45.44	205.86	132.91
204.31	18.85	204.83	19.83	205.35	46.65	205.87	134.92
204.32	18.87	204.84	19.85	205.36	47.89	205.88	136.95
204.33	18.89	204.85	19.86	205.37	49.15	205.89	138.99
204.34	18.91	204.86	19.88	205.38	50.43	205.90	141.05
204.35	18.93	204.87	19.90	205.39	51.74	205.91	143.11
204.36	18.95	204.88	19.92	205.40	53.07	205.92	145.19
204.37	18.97	204.89	19.94	205.41	54.46	205.93	147.29
204.38	18.99	204.90	19.95	205.42	55.86	205.94	149.39
204.39	19.01	204.91	19.97	205.43	57.30	205.95	151.51
204.40	19.03	204.92	19.99	205.44	58.76	205.96	153.64
204.41	19.05	204.93	20.01	205.45	60.25	205.97	155.79
204.42	19.06	204.94	20.03	205.46	61.76	205.98	157.94
204.43	19.08	204.95	20.05	205.47	63.30	205.99	160.11
204.44	19.10	204.96	20.06	205.48	64.87	206.00	162.29
204.45	19.12	204.97	20.08	205.49	66.46		
204.46	19.14	204.98	20.10	205.50	68.08		
204.47	19.16	204.99	20.12	205.51	69.73		
204.48	19.18	205.00	20.14	205.52	71.40		
204.49	19.20	205.01	20.27	205.53	73.10		
204.50	19.22	205.02	20.50	205.54	74.82		
204.51	19.23	205.03	20.80	205.55	76.57		
204.52	19.25	205.04	21.14	205.56	78.35		
204.53	19.27	205.05	21.54	205.57	80.16		
204.54	19.29	205.06	21.97	205.58	81.99		
204.55	19.31	205.07	22.44	205.59	83.85		
204.56	19.33	205.08	22.94	205.60	85.74		
204.57	19.35	205.09	23.47	205.61	87.38		
204.58	19.37	205.10	24.03	205.62	89.04		
204.59	19.38	205.11	24.62	205.63	90.71		
204.60	19.40	205.12	25.24	205.64	92.39		
204.61	19.42	205.13	25.89	205.65	94.09		
204.62	19.44	205.14	26.56	205.66	95.80		
204.63	19.46	205.15	27.25	205.67	97.53		
204.64	19.48	205.16	27.97	205.68	99.26		
204.65	19.50	205.17	28.71	205.69	101.01		
204.66	19.51	205.18	29.47	205.70	102.78		
204.67	19.53	205.19	30.25	205.71	104.55		

Stage-Area-Storage for Pond B-5: Basin #5

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
200.00	11,631	0	200.52	12,238	6,206
200.01	11,643	116	200.53	12,250	6,328
200.02	11,654	233	200.54	12,261	6,451
200.03	11,666	349	200.55	12,273	6,574
200.04	11,678	466	200.56	12,285	6,696
200.05	11,689	583	200.57	12,296	6,819
200.06	11,701	700	200.58	12,308	6,942
200.07	11,713	817	200.59	12,320	7,065
200.08	11,724	934	200.60	12,331	7,189
200.09	11,736	1,052	200.61	12,343	7,312
200.10	11,748	1,169	200.62	12,355	7,436
200.11	11,759	1,286	200.63	12,366	7,559
200.12	11,771	1,404	200.64	12,378	7,683
200.13	11,783	1,522	200.65	12,390	7,807
200.14	11,794	1,640	200.66	12,401	7,931
200.15	11,806	1,758	200.67	12,413	8,055
200.16	11,818	1,876	200.68	12,425	8,179
200.17	11,829	1,994	200.69	12,436	8,303
200.18	11,841	2,112	200.70	12,448	8,428
200.19	11,853	2,231	200.71	12,460	8,552
200.20	11,864	2,350	200.72	12,471	8,677
200.21	11,876	2,468	200.73	12,483	8,802
200.22	11,888	2,587	200.74	12,495	8,926
200.23	11,899	2,706	200.75	12,506	9,051
200.24	11,911	2,825	200.76	12,518	9,177
200.25	11,923	2,944	200.77	12,530	9,302
200.26	11,934	3,064	200.78	12,541	9,427
200.27	11,946	3,183	200.79	12,553	9,553
200.28	11,958	3,302	200.80	12,565	9,678
200.29	11,969	3,422	200.81	12,576	9,804
200.30	11,981	3,542	200.82	12,588	9,930
200.31	11,993	3,662	200.83	12,600	10,056
200.32	12,004	3,782	200.84	12,611	10,182
200.33	12,016	3,902	200.85	12,623	10,308
200.34	12,028	4,022	200.86	12,635	10,434
200.35	12,039	4,142	200.87	12,646	10,561
200.36	12,051	4,263	200.88	12,658	10,687
200.37	12,063	4,383	200.89	12,670	10,814
200.38	12,074	4,504	200.90	12,681	10,941
200.39	12,086	4,625	200.91	12,693	11,067
200.40	12,098	4,746	200.92	12,705	11,194
200.41	12,109	4,867	200.93	12,716	11,321
200.42	12,121	4,988	200.94	12,728	11,449
200.43	12,133	5,109	200.95	12,740	11,576
200.44	12,144	5,231	200.96	12,751	11,704
200.45	12,156	5,352	200.97	12,763	11,831
200.46	12,168	5,474	200.98	12,775	11,959
200.47	12,179	5,595	200.99	12,786	12,087
200.48	12,191	5,717	201.00	12,798	12,215
200.49	12,203	5,839	201.01	12,810	12,343
200.50	12,215	5,961	201.02	12,822	12,471
200.51	12,226	6,084	201.03	12,834	12,599

Stage-Area-Storage for Pond B-5: Basin #5 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
201.04	12,846	12,727	201.56	13,476	19,571
201.05	12,859	12,856	201.57	13,488	19,706
201.06	12,871	12,985	201.58	13,500	19,841
201.07	12,883	13,113	201.59	13,512	19,976
201.08	12,895	13,242	201.60	13,525	20,111
201.09	12,907	13,371	201.61	13,537	20,247
201.10	12,919	13,500	201.62	13,549	20,382
201.11	12,931	13,630	201.63	13,561	20,518
201.12	12,943	13,759	201.64	13,573	20,653
201.13	12,955	13,888	201.65	13,585	20,789
201.14	12,968	14,018	201.66	13,597	20,925
201.15	12,980	14,148	201.67	13,609	21,061
201.16	12,992	14,278	201.68	13,621	21,197
201.17	13,004	14,408	201.69	13,634	21,333
201.18	13,016	14,538	201.70	13,646	21,470
201.19	13,028	14,668	201.71	13,658	21,606
201.20	13,040	14,798	201.72	13,670	21,743
201.21	13,052	14,929	201.73	13,682	21,880
201.22	13,064	15,059	201.74	13,694	22,017
201.23	13,077	15,190	201.75	13,706	22,154
201.24	13,089	15,321	201.76	13,718	22,291
201.25	13,101	15,452	201.77	13,730	22,428
201.26	13,113	15,583	201.78	13,743	22,565
201.27	13,125	15,714	201.79	13,755	22,703
201.28	13,137	15,845	201.80	13,767	22,840
201.29	13,149	15,977	201.81	13,779	22,978
201.30	13,161	16,108	201.82	13,791	23,116
201.31	13,173	16,240	201.83	13,803	23,254
201.32	13,186	16,372	201.84	13,815	23,392
201.33	13,198	16,504	201.85	13,827	23,530
201.34	13,210	16,636	201.86	13,839	23,669
201.35	13,222	16,768	201.87	13,852	23,807
201.36	13,234	16,900	201.88	13,864	23,946
201.37	13,246	17,033	201.89	13,876	24,084
201.38	13,258	17,165	201.90	13,888	24,223
201.39	13,270	17,298	201.91	13,900	24,362
201.40	13,282	17,431	201.92	13,912	24,501
201.41	13,295	17,563	201.93	13,924	24,640
201.42	13,307	17,696	201.94	13,936	24,780
201.43	13,319	17,830	201.95	13,948	24,919
201.44	13,331	17,963	201.96	13,961	25,059
201.45	13,343	18,096	201.97	13,973	25,198
201.46	13,355	18,230	201.98	13,985	25,338
201.47	13,367	18,363	201.99	13,997	25,478
201.48	13,379	18,497	202.00	14,009	25,618
201.49	13,391	18,631	202.01	14,022	25,758
201.50	13,404	18,765	202.02	14,034	25,898
201.51	13,416	18,899	202.03	14,047	26,039
201.52	13,428	19,033	202.04	14,059	26,179
201.53	13,440	19,168	202.05	14,072	26,320
201.54	13,452	19,302	202.06	14,084	26,461
201.55	13,464	19,437	202.07	14,097	26,602

Stage-Area-Storage for Pond B-5: Basin #5 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
202.08	14,109	26,743	202.60	14,761	34,249
202.09	14,122	26,884	202.61	14,773	34,397
202.10	14,134	27,025	202.62	14,786	34,544
202.11	14,147	27,167	202.63	14,798	34,692
202.12	14,159	27,308	202.64	14,811	34,840
202.13	14,172	27,450	202.65	14,823	34,989
202.14	14,184	27,592	202.66	14,836	35,137
202.15	14,197	27,733	202.67	14,849	35,285
202.16	14,209	27,875	202.68	14,861	35,434
202.17	14,222	28,018	202.69	14,874	35,582
202.18	14,235	28,160	202.70	14,886	35,731
202.19	14,247	28,302	202.71	14,899	35,880
202.20	14,260	28,445	202.72	14,911	36,029
202.21	14,272	28,588	202.73	14,924	36,178
202.22	14,285	28,730	202.74	14,936	36,328
202.23	14,297	28,873	202.75	14,949	36,477
202.24	14,310	29,016	202.76	14,961	36,627
202.25	14,322	29,159	202.77	14,974	36,776
202.26	14,335	29,303	202.78	14,986	36,926
202.27	14,347	29,446	202.79	14,999	37,076
202.28	14,360	29,590	202.80	15,011	37,226
202.29	14,372	29,733	202.81	15,024	37,376
202.30	14,385	29,877	202.82	15,036	37,527
202.31	14,397	30,021	202.83	15,049	37,677
202.32	14,410	30,165	202.84	15,062	37,828
202.33	14,422	30,309	202.85	15,074	37,978
202.34	14,435	30,453	202.86	15,087	38,129
202.35	14,448	30,598	202.87	15,099	38,280
202.36	14,460	30,742	202.88	15,112	38,431
202.37	14,473	30,887	202.89	15,124	38,582
202.38	14,485	31,032	202.90	15,137	38,734
202.39	14,498	31,177	202.91	15,149	38,885
202.40	14,510	31,322	202.92	15,162	39,037
202.41	14,523	31,467	202.93	15,174	39,188
202.42	14,535	31,612	202.94	15,187	39,340
202.43	14,548	31,758	202.95	15,199	39,492
202.44	14,560	31,903	202.96	15,212	39,644
202.45	14,573	32,049	202.97	15,224	39,796
202.46	14,585	32,195	202.98	15,237	39,949
202.47	14,598	32,341	202.99	15,249	40,101
202.48	14,610	32,487	203.00	15,262	40,254
202.49	14,623	32,633	203.01	15,275	40,406
202.50	14,636	32,779	203.02	15,288	40,559
202.51	14,648	32,926	203.03	15,301	40,712
202.52	14,661	33,072	203.04	15,314	40,865
202.53	14,673	33,219	203.05	15,327	41,018
202.54	14,686	33,366	203.06	15,340	41,172
202.55	14,698	33,512	203.07	15,353	41,325
202.56	14,711	33,660	203.08	15,366	41,479
202.57	14,723	33,807	203.09	15,379	41,632
202.58	14,736	33,954	203.10	15,392	41,786
202.59	14,748	34,101	203.11	15,405	41,940

Stage-Area-Storage for Pond B-5: Basin #5 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
203.12	15,418	42,094	203.64	16,091	50,287
203.13	15,430	42,249	203.65	16,104	50,448
203.14	15,443	42,403	203.66	16,117	50,609
203.15	15,456	42,557	203.67	16,130	50,770
203.16	15,469	42,712	203.68	16,143	50,931
203.17	15,482	42,867	203.69	16,156	51,093
203.18	15,495	43,022	203.70	16,169	51,254
203.19	15,508	43,177	203.71	16,182	51,416
203.20	15,521	43,332	203.72	16,195	51,578
203.21	15,534	43,487	203.73	16,208	51,740
203.22	15,547	43,643	203.74	16,221	51,902
203.23	15,560	43,798	203.75	16,234	52,065
203.24	15,573	43,954	203.76	16,247	52,227
203.25	15,586	44,110	203.77	16,260	52,389
203.26	15,599	44,265	203.78	16,273	52,552
203.27	15,612	44,421	203.79	16,286	52,715
203.28	15,625	44,578	203.80	16,299	52,878
203.29	15,638	44,734	203.81	16,312	53,041
203.30	15,651	44,890	203.82	16,325	53,204
203.31	15,664	45,047	203.83	16,338	53,367
203.32	15,677	45,204	203.84	16,351	53,531
203.33	15,690	45,361	203.85	16,364	53,694
203.34	15,703	45,517	203.86	16,377	53,858
203.35	15,716	45,675	203.87	16,390	54,022
203.36	15,729	45,832	203.88	16,402	54,186
203.37	15,742	45,989	203.89	16,415	54,350
203.38	15,754	46,147	203.90	16,428	54,514
203.39	15,767	46,304	203.91	16,441	54,679
203.40	15,780	46,462	203.92	16,454	54,843
203.41	15,793	46,620	203.93	16,467	55,008
203.42	15,806	46,778	203.94	16,480	55,172
203.43	15,819	46,936	203.95	16,493	55,337
203.44	15,832	47,094	203.96	16,506	55,502
203.45	15,845	47,253	203.97	16,519	55,667
203.46	15,858	47,411	203.98	16,532	55,833
203.47	15,871	47,570	203.99	16,545	55,998
203.48	15,884	47,729	204.00	16,558	56,164
203.49	15,897	47,887	204.01	16,571	56,329
203.50	15,910	48,047	204.02	16,585	56,495
203.51	15,923	48,206	204.03	16,598	56,661
203.52	15,936	48,365	204.04	16,612	56,827
203.53	15,949	48,524	204.05	16,625	56,993
203.54	15,962	48,684	204.06	16,638	57,159
203.55	15,975	48,844	204.07	16,652	57,326
203.56	15,988	49,003	204.08	16,665	57,492
203.57	16,001	49,163	204.09	16,678	57,659
203.58	16,014	49,323	204.10	16,692	57,826
203.59	16,027	49,484	204.11	16,705	57,993
203.60	16,040	49,644	204.12	16,719	58,160
203.61	16,053	49,804	204.13	16,732	58,327
203.62	16,066	49,965	204.14	16,745	58,495
203.63	16,078	50,126	204.15	16,759	58,662

Stage-Area-Storage for Pond B-5: Basin #5 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
204.16	16,772	58,830	204.68	17,468	67,732
204.17	16,785	58,998	204.69	17,481	67,907
204.18	16,799	59,166	204.70	17,495	68,082
204.19	16,812	59,334	204.71	17,508	68,257
204.20	16,826	59,502	204.72	17,521	68,432
204.21	16,839	59,670	204.73	17,535	68,607
204.22	16,852	59,839	204.74	17,548	68,783
204.23	16,866	60,007	204.75	17,562	68,958
204.24	16,879	60,176	204.76	17,575	69,134
204.25	16,893	60,345	204.77	17,588	69,310
204.26	16,906	60,514	204.78	17,602	69,486
204.27	16,919	60,683	204.79	17,615	69,662
204.28	16,933	60,852	204.80	17,628	69,838
204.29	16,946	61,022	204.81	17,642	70,014
204.30	16,959	61,191	204.82	17,655	70,191
204.31	16,973	61,361	204.83	17,669	70,368
204.32	16,986	61,531	204.84	17,682	70,544
204.33	17,000	61,700	204.85	17,695	70,721
204.34	17,013	61,871	204.86	17,709	70,898
204.35	17,026	62,041	204.87	17,722	71,075
204.36	17,040	62,211	204.88	17,735	71,253
204.37	17,053	62,382	204.89	17,749	71,430
204.38	17,066	62,552	204.90	17,762	71,608
204.39	17,080	62,723	204.91	17,776	71,785
204.40	17,093	62,894	204.92	17,789	71,963
204.41	17,107	63,065	204.93	17,802	72,141
204.42	17,120	63,236	204.94	17,816	72,319
204.43	17,133	63,407	204.95	17,829	72,497
204.44	17,147	63,579	204.96	17,842	72,676
204.45	17,160	63,750	204.97	17,856	72,854
204.46	17,173	63,922	204.98	17,869	73,033
204.47	17,187	64,094	204.99	17,883	73,212
204.48	17,200	64,265	205.00	17,896	73,391
204.49	17,214	64,438	205.01	17,910	73,570
204.50	17,227	64,610	205.02	17,924	73,749
204.51	17,240	64,782	205.03	17,937	73,928
204.52	17,254	64,955	205.04	17,951	74,107
204.53	17,267	65,127	205.05	17,965	74,287
204.54	17,281	65,300	205.06	17,979	74,467
204.55	17,294	65,473	205.07	17,993	74,647
204.56	17,307	65,646	205.08	18,006	74,827
204.57	17,321	65,819	205.09	18,020	75,007
204.58	17,334	65,992	205.10	18,034	75,187
204.59	17,347	66,166	205.11	18,048	75,367
204.60	17,361	66,339	205.12	18,061	75,548
204.61	17,374	66,513	205.13	18,075	75,729
204.62	17,388	66,687	205.14	18,089	75,909
204.63	17,401	66,861	205.15	18,103	76,090
204.64	17,414	67,035	205.16	18,117	76,272
204.65	17,428	67,209	205.17	18,130	76,453
204.66	17,441	67,383	205.18	18,144	76,634
204.67	17,454	67,558	205.19	18,158	76,816

Stage-Area-Storage for Pond B-5: Basin #5 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
205.20	18,172	76,997	205.72	18,889	86,633
205.21	18,186	77,179	205.73	18,903	86,822
205.22	18,199	77,361	205.74	18,916	87,011
205.23	18,213	77,543	205.75	18,930	87,200
205.24	18,227	77,725	205.76	18,944	87,390
205.25	18,241	77,908	205.77	18,958	87,579
205.26	18,255	78,090	205.78	18,972	87,769
205.27	18,268	78,273	205.79	18,985	87,959
205.28	18,282	78,455	205.80	18,999	88,149
205.29	18,296	78,638	205.81	19,013	88,339
205.30	18,310	78,821	205.82	19,027	88,529
205.31	18,323	79,005	205.83	19,041	88,719
205.32	18,337	79,188	205.84	19,054	88,910
205.33	18,351	79,371	205.85	19,068	89,100
205.34	18,365	79,555	205.86	19,082	89,291
205.35	18,379	79,739	205.87	19,096	89,482
205.36	18,392	79,922	205.88	19,110	89,673
205.37	18,406	80,106	205.89	19,123	89,864
205.38	18,420	80,291	205.90	19,137	90,055
205.39	18,434	80,475	205.91	19,151	90,247
205.40	18,448	80,659	205.92	19,165	90,438
205.41	18,461	80,844	205.93	19,178	90,630
205.42	18,475	81,028	205.94	19,192	90,822
205.43	18,489	81,213	205.95	19,206	91,014
205.44	18,503	81,398	205.96	19,220	91,206
205.45	18,517	81,583	205.97	19,234	91,398
205.46	18,530	81,769	205.98	19,247	91,591
205.47	18,544	81,954	205.99	19,261	91,783
205.48	18,558	82,139	206.00	19,275	91,976
205.49	18,572	82,325			
205.50	18,586	82,511			
205.51	18,599	82,697			
205.52	18,613	82,883			
205.53	18,627	83,069			
205.54	18,641	83,255			
205.55	18,654	83,442			
205.56	18,668	83,628			
205.57	18,682	83,815			
205.58	18,696	84,002			
205.59	18,710	84,189			
205.60	18,723	84,376			
205.61	18,737	84,564			
205.62	18,751	84,751			
205.63	18,765	84,939			
205.64	18,779	85,126			
205.65	18,792	85,314			
205.66	18,806	85,502			
205.67	18,820	85,690			
205.68	18,834	85,879			
205.69	18,848	86,067			
205.70	18,861	86,256			
205.71	18,875	86,444			

Summary for Pond B-6: Basin #6

Inflow Area = 1.191 ac, 58.27% Impervious, Inflow Depth = 7.14" for Current 100 yr event
 Inflow = 8.42 cfs @ 12.17 hrs, Volume= 0.709 af
 Outflow = 6.40 cfs @ 12.26 hrs, Volume= 0.635 af, Atten= 24%, Lag= 5.2 min
 Primary = 6.40 cfs @ 12.26 hrs, Volume= 0.635 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 200.72' @ 12.26 hrs Surf.Area= 6,566 sf Storage= 10,286 cf

Plug-Flow detention time= 231.7 min calculated for 0.634 af (89% of inflow)
 Center-of-Mass det. time= 179.5 min (948.2 - 768.7)

Volume	Invert	Avail.Storage	Storage Description
#1	199.00'	35,769 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
199.00	5,389	0	0
200.00	6,060	5,725	5,725
201.00	6,761	6,411	12,135
202.00	7,490	7,126	19,261
203.00	8,247	7,869	27,129
204.00	9,032	8,640	35,769

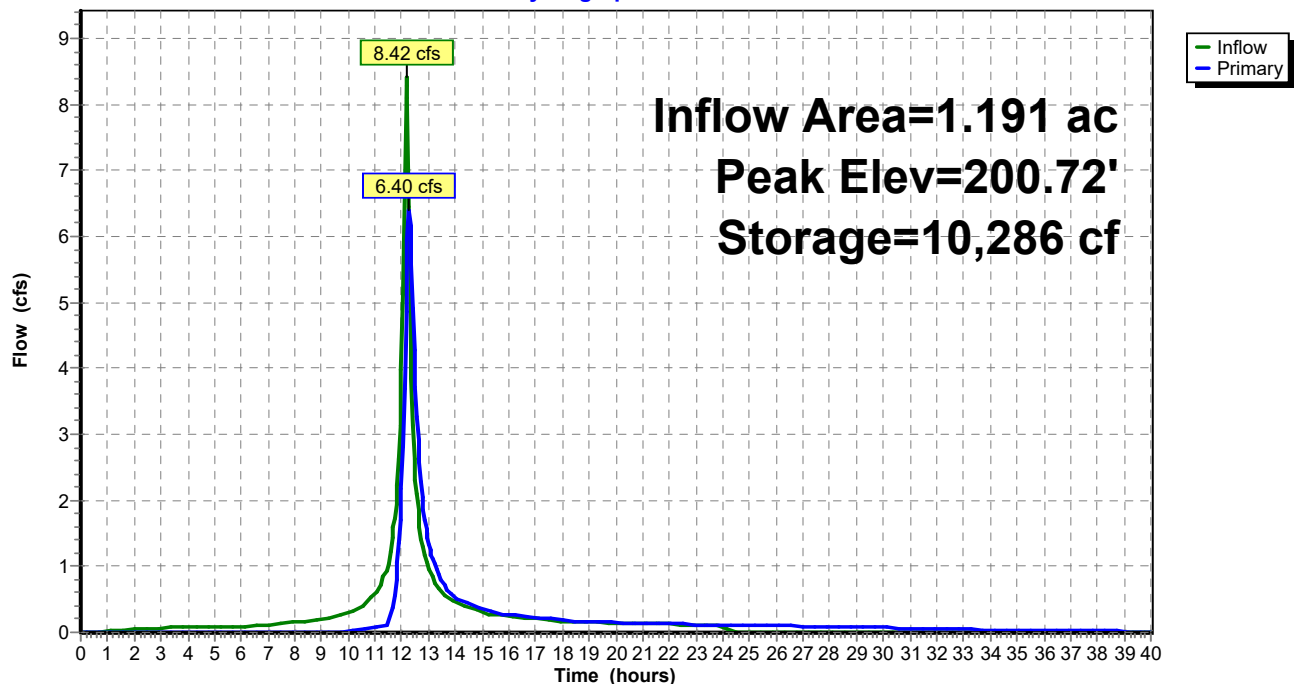
Device	Routing	Invert	Outlet Devices
#1	Primary	197.65'	18.0" Round Culvert L= 627.0' Ke= 0.500 Inlet / Outlet Invert= 197.65' / 194.00' S= 0.0058 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	199.50'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	200.10'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	200.89'	50.0' long + 3.0 '/' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=6.35 cfs @ 12.26 hrs HW=200.72' (Free Discharge)

1=Culvert (Passes 6.35 cfs of 9.00 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.17 cfs @ 5.09 fps)
 3=Sharp-Crested Rectangular Weir (Weir Controls 6.18 cfs @ 2.57 fps)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-6: Basin #6

Hydrograph



Stage-Discharge for Pond B-6: Basin #6

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
199.00	0.00	199.52	0.00	200.04	0.11	200.56	4.15
199.01	0.00	199.53	0.00	200.05	0.11	200.57	4.28
199.02	0.00	199.54	0.00	200.06	0.11	200.58	4.41
199.03	0.00	199.55	0.00	200.07	0.11	200.59	4.54
199.04	0.00	199.56	0.01	200.08	0.11	200.60	4.67
199.05	0.00	199.57	0.01	200.09	0.11	200.61	4.81
199.06	0.00	199.58	0.01	200.10	0.12	200.62	4.94
199.07	0.00	199.59	0.01	200.11	0.13	200.63	5.08
199.08	0.00	199.60	0.02	200.12	0.15	200.64	5.22
199.09	0.00	199.61	0.02	200.13	0.19	200.65	5.36
199.10	0.00	199.62	0.02	200.14	0.22	200.66	5.50
199.11	0.00	199.63	0.03	200.15	0.27	200.67	5.64
199.12	0.00	199.64	0.03	200.16	0.31	200.68	5.78
199.13	0.00	199.65	0.03	200.17	0.36	200.69	5.92
199.14	0.00	199.66	0.04	200.18	0.42	200.70	6.07
199.15	0.00	199.67	0.04	200.19	0.48	200.71	6.21
199.16	0.00	199.68	0.05	200.20	0.54	200.72	6.36
199.17	0.00	199.69	0.05	200.21	0.60	200.73	6.51
199.18	0.00	199.70	0.05	200.22	0.67	200.74	6.66
199.19	0.00	199.71	0.05	200.23	0.74	200.75	6.81
199.20	0.00	199.72	0.06	200.24	0.81	200.76	6.96
199.21	0.00	199.73	0.06	200.25	0.89	200.77	7.11
199.22	0.00	199.74	0.06	200.26	0.96	200.78	7.26
199.23	0.00	199.75	0.06	200.27	1.04	200.79	7.42
199.24	0.00	199.76	0.06	200.28	1.12	200.80	7.57
199.25	0.00	199.77	0.07	200.29	1.21	200.81	7.73
199.26	0.00	199.78	0.07	200.30	1.30	200.82	7.88
199.27	0.00	199.79	0.07	200.31	1.38	200.83	8.04
199.28	0.00	199.80	0.07	200.32	1.47	200.84	8.20
199.29	0.00	199.81	0.07	200.33	1.57	200.85	8.36
199.30	0.00	199.82	0.08	200.34	1.66	200.86	8.52
199.31	0.00	199.83	0.08	200.35	1.76	200.87	8.68
199.32	0.00	199.84	0.08	200.36	1.85	200.88	8.84
199.33	0.00	199.85	0.08	200.37	1.95	200.89	9.01
199.34	0.00	199.86	0.08	200.38	2.06	200.90	9.27
199.35	0.00	199.87	0.08	200.39	2.16	200.91	9.49
199.36	0.00	199.88	0.09	200.40	2.26	200.92	9.78
199.37	0.00	199.89	0.09	200.41	2.37	200.93	10.11
199.38	0.00	199.90	0.09	200.42	2.48	200.94	10.50
199.39	0.00	199.91	0.09	200.43	2.59	200.95	10.92
199.40	0.00	199.92	0.09	200.44	2.70	200.96	11.38
199.41	0.00	199.93	0.09	200.45	2.81	200.97	11.87
199.42	0.00	199.94	0.10	200.46	2.93	200.98	12.39
199.43	0.00	199.95	0.10	200.47	3.04	200.99	12.95
199.44	0.00	199.96	0.10	200.48	3.16	201.00	13.53
199.45	0.00	199.97	0.10	200.49	3.28	201.01	14.14
199.46	0.00	199.98	0.10	200.50	3.40	201.02	14.77
199.47	0.00	199.99	0.10	200.51	3.52	201.03	15.43
199.48	0.00	200.00	0.10	200.52	3.64	201.04	16.12
199.49	0.00	200.01	0.10	200.53	3.77	201.05	16.82
199.50	0.00	200.02	0.11	200.54	3.89	201.06	17.55
199.51	0.00	200.03	0.11	200.55	4.02	201.07	18.31

Stage-Discharge for Pond B-6: Basin #6 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
201.08	19.08	201.60	92.90	202.12	202.17	202.64	343.03
201.09	19.88	201.61	94.68	202.13	204.57	202.65	346.04
201.10	20.73	201.62	96.47	202.14	206.99	202.66	349.06
201.11	21.61	201.63	98.28	202.15	209.42	202.67	352.09
201.12	22.52	201.64	100.10	202.16	211.85	202.68	355.14
201.13	23.45	201.65	101.92	202.17	214.30	202.69	358.19
201.14	24.41	201.66	103.77	202.18	216.76	202.70	361.25
201.15	25.39	201.67	105.62	202.19	219.23	202.71	364.32
201.16	26.39	201.68	107.49	202.20	221.71	202.72	367.41
201.17	27.43	201.69	109.36	202.21	224.20	202.73	370.50
201.18	28.48	201.70	111.29	202.22	226.70	202.74	373.61
201.19	29.56	201.71	113.23	202.23	229.21	202.75	376.73
201.20	30.67	201.72	115.19	202.24	231.73	202.76	379.85
201.21	31.80	201.73	117.15	202.25	234.27	202.77	382.99
201.22	32.95	201.74	119.13	202.26	236.81	202.78	386.14
201.23	34.13	201.75	121.13	202.27	239.36	202.79	389.29
201.24	35.33	201.76	123.13	202.28	241.92	202.80	392.46
201.25	36.56	201.77	125.15	202.29	244.50	202.81	395.64
201.26	37.81	201.78	127.19	202.30	247.13	202.82	398.83
201.27	39.08	201.79	129.23	202.31	249.77	202.83	402.03
201.28	40.38	201.80	131.29	202.32	252.42	202.84	405.24
201.29	41.71	201.81	133.36	202.33	255.08	202.85	408.46
201.30	43.08	201.82	135.44	202.34	257.75	202.86	411.69
201.31	44.48	201.83	137.54	202.35	260.43	202.87	414.94
201.32	45.91	201.84	139.65	202.36	263.13	202.88	418.19
201.33	47.36	201.85	141.77	202.37	265.84	202.89	421.45
201.34	48.84	201.86	143.91	202.38	268.55	202.90	424.79
201.35	50.34	201.87	146.06	202.39	271.28	202.91	428.13
201.36	51.87	201.88	148.21	202.40	274.02	202.92	431.49
201.37	53.43	201.89	150.39	202.41	276.77	202.93	434.86
201.38	55.01	201.90	152.52	202.42	279.53	202.94	438.24
201.39	56.62	201.91	154.66	202.43	282.30	202.95	441.63
201.40	58.26	201.92	156.81	202.44	285.09	202.96	445.04
201.41	59.92	201.93	158.98	202.45	287.88	202.97	448.45
201.42	61.61	201.94	161.15	202.46	290.69	202.98	451.88
201.43	63.33	201.95	163.34	202.47	293.50	202.99	455.32
201.44	65.07	201.96	165.53	202.48	296.33	203.00	458.76
201.45	66.84	201.97	167.74	202.49	299.17	203.01	462.22
201.46	68.64	201.98	169.96	202.50	302.02	203.02	465.70
201.47	70.46	201.99	172.18	202.51	304.88	203.03	469.18
201.48	72.31	202.00	174.42	202.52	307.75	203.04	472.67
201.49	74.19	202.01	176.67	202.53	310.63	203.05	476.18
201.50	75.82	202.02	178.93	202.54	313.52	203.06	479.70
201.51	77.47	202.03	181.19	202.55	316.42	203.07	483.22
201.52	79.13	202.04	183.47	202.56	319.34	203.08	486.76
201.53	80.81	202.05	185.76	202.57	322.26	203.09	490.31
201.54	82.50	202.06	188.06	202.58	325.20	203.10	493.88
201.55	84.20	202.07	190.37	202.59	328.14	203.11	497.45
201.56	85.91	202.08	192.68	202.60	331.10	203.12	501.04
201.57	87.64	202.09	195.01	202.61	334.07	203.13	504.63
201.58	89.38	202.10	197.39	202.62	337.04	203.14	508.24
201.59	91.14	202.11	199.77	202.63	340.03	203.15	511.86

Stage-Discharge for Pond B-6: Basin #6 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
203.16	515.49	203.68	715.19
203.17	519.13	203.69	719.23
203.18	522.78	203.70	723.28
203.19	526.45	203.71	727.34
203.20	530.12	203.72	731.41
203.21	533.81	203.73	735.49
203.22	537.50	203.74	739.58
203.23	541.21	203.75	743.67
203.24	544.93	203.76	747.78
203.25	548.67	203.77	751.90
203.26	552.41	203.78	756.02
203.27	556.16	203.79	760.15
203.28	559.93	203.80	764.30
203.29	563.70	203.81	768.45
203.30	567.49	203.82	772.61
203.31	571.29	203.83	776.79
203.32	575.10	203.84	780.97
203.33	578.92	203.85	785.16
203.34	582.76	203.86	789.36
203.35	586.60	203.87	793.57
203.36	590.46	203.88	797.78
203.37	594.32	203.89	802.01
203.38	598.20	203.90	806.43
203.39	602.09	203.91	810.86
203.40	605.86	203.92	815.29
203.41	609.64	203.93	819.74
203.42	613.42	203.94	824.20
203.43	617.22	203.95	828.68
203.44	621.02	203.96	833.16
203.45	624.84	203.97	837.65
203.46	628.66	203.98	842.16
203.47	632.49	203.99	846.68
203.48	636.34	204.00	851.20
203.49	640.19		
203.50	644.05		
203.51	647.92		
203.52	651.81		
203.53	655.70		
203.54	659.60		
203.55	663.51		
203.56	667.42		
203.57	671.35		
203.58	675.29		
203.59	679.24		
203.60	683.20		
203.61	687.16		
203.62	691.14		
203.63	695.12		
203.64	699.12		
203.65	703.12		
203.66	707.13		
203.67	711.16		

Stage-Area-Storage for Pond B-6: Basin #6

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
199.00	5,389	0	199.52	5,738	2,893
199.01	5,396	54	199.53	5,745	2,950
199.02	5,402	108	199.54	5,751	3,008
199.03	5,409	162	199.55	5,758	3,065
199.04	5,416	216	199.56	5,765	3,123
199.05	5,423	270	199.57	5,771	3,181
199.06	5,429	325	199.58	5,778	3,238
199.07	5,436	379	199.59	5,785	3,296
199.08	5,443	433	199.60	5,792	3,354
199.09	5,449	488	199.61	5,798	3,412
199.10	5,456	542	199.62	5,805	3,470
199.11	5,463	597	199.63	5,812	3,528
199.12	5,470	652	199.64	5,818	3,586
199.13	5,476	706	199.65	5,825	3,645
199.14	5,483	761	199.66	5,832	3,703
199.15	5,490	816	199.67	5,839	3,761
199.16	5,496	871	199.68	5,845	3,820
199.17	5,503	926	199.69	5,852	3,878
199.18	5,510	981	199.70	5,859	3,937
199.19	5,516	1,036	199.71	5,865	3,995
199.20	5,523	1,091	199.72	5,872	4,054
199.21	5,530	1,146	199.73	5,879	4,113
199.22	5,537	1,202	199.74	5,886	4,172
199.23	5,543	1,257	199.75	5,892	4,230
199.24	5,550	1,313	199.76	5,899	4,289
199.25	5,557	1,368	199.77	5,906	4,348
199.26	5,563	1,424	199.78	5,912	4,408
199.27	5,570	1,479	199.79	5,919	4,467
199.28	5,577	1,535	199.80	5,926	4,526
199.29	5,584	1,591	199.81	5,933	4,585
199.30	5,590	1,647	199.82	5,939	4,645
199.31	5,597	1,703	199.83	5,946	4,704
199.32	5,604	1,759	199.84	5,953	4,763
199.33	5,610	1,815	199.85	5,959	4,823
199.34	5,617	1,871	199.86	5,966	4,883
199.35	5,624	1,927	199.87	5,973	4,942
199.36	5,631	1,984	199.88	5,979	5,002
199.37	5,637	2,040	199.89	5,986	5,062
199.38	5,644	2,096	199.90	5,993	5,122
199.39	5,651	2,153	199.91	6,000	5,182
199.40	5,657	2,209	199.92	6,006	5,242
199.41	5,664	2,266	199.93	6,013	5,302
199.42	5,671	2,323	199.94	6,020	5,362
199.43	5,678	2,379	199.95	6,026	5,422
199.44	5,684	2,436	199.96	6,033	5,483
199.45	5,691	2,493	199.97	6,040	5,543
199.46	5,698	2,550	199.98	6,047	5,603
199.47	5,704	2,607	199.99	6,053	5,664
199.48	5,711	2,664	200.00	6,060	5,725
199.49	5,718	2,721	200.01	6,067	5,785
199.50	5,725	2,778	200.02	6,074	5,846
199.51	5,731	2,836	200.03	6,081	5,907

Stage-Area-Storage for Pond B-6: Basin #6 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
200.04	6,088	5,967	200.56	6,453	9,228
200.05	6,095	6,028	200.57	6,460	9,293
200.06	6,102	6,089	200.58	6,467	9,357
200.07	6,109	6,150	200.59	6,474	9,422
200.08	6,116	6,212	200.60	6,481	9,487
200.09	6,123	6,273	200.61	6,488	9,552
200.10	6,130	6,334	200.62	6,495	9,616
200.11	6,137	6,395	200.63	6,502	9,681
200.12	6,144	6,457	200.64	6,509	9,746
200.13	6,151	6,518	200.65	6,516	9,812
200.14	6,158	6,580	200.66	6,523	9,877
200.15	6,165	6,641	200.67	6,530	9,942
200.16	6,172	6,703	200.68	6,537	10,007
200.17	6,179	6,765	200.69	6,544	10,073
200.18	6,186	6,827	200.70	6,551	10,138
200.19	6,193	6,889	200.71	6,558	10,204
200.20	6,200	6,951	200.72	6,565	10,269
200.21	6,207	7,013	200.73	6,572	10,335
200.22	6,214	7,075	200.74	6,579	10,401
200.23	6,221	7,137	200.75	6,586	10,467
200.24	6,228	7,199	200.76	6,593	10,533
200.25	6,235	7,261	200.77	6,600	10,599
200.26	6,242	7,324	200.78	6,607	10,665
200.27	6,249	7,386	200.79	6,614	10,731
200.28	6,256	7,449	200.80	6,621	10,797
200.29	6,263	7,511	200.81	6,628	10,863
200.30	6,270	7,574	200.82	6,635	10,929
200.31	6,277	7,637	200.83	6,642	10,996
200.32	6,284	7,700	200.84	6,649	11,062
200.33	6,291	7,762	200.85	6,656	11,129
200.34	6,298	7,825	200.86	6,663	11,195
200.35	6,305	7,888	200.87	6,670	11,262
200.36	6,312	7,952	200.88	6,677	11,329
200.37	6,319	8,015	200.89	6,684	11,396
200.38	6,326	8,078	200.90	6,691	11,462
200.39	6,333	8,141	200.91	6,698	11,529
200.40	6,340	8,205	200.92	6,705	11,596
200.41	6,347	8,268	200.93	6,712	11,663
200.42	6,354	8,332	200.94	6,719	11,731
200.43	6,361	8,395	200.95	6,726	11,798
200.44	6,368	8,459	200.96	6,733	11,865
200.45	6,375	8,522	200.97	6,740	11,932
200.46	6,382	8,586	200.98	6,747	12,000
200.47	6,389	8,650	200.99	6,754	12,067
200.48	6,396	8,714	201.00	6,761	12,135
200.49	6,403	8,778	201.01	6,768	12,203
200.50	6,411	8,842	201.02	6,776	12,270
200.51	6,418	8,906	201.03	6,783	12,338
200.52	6,425	8,970	201.04	6,790	12,406
200.53	6,432	9,035	201.05	6,797	12,474
200.54	6,439	9,099	201.06	6,805	12,542
200.55	6,446	9,164	201.07	6,812	12,610

Stage-Area-Storage for Pond B-6: Basin #6 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
201.08	6,819	12,678	201.60	7,198	16,323
201.09	6,827	12,746	201.61	7,206	16,395
201.10	6,834	12,815	201.62	7,213	16,467
201.11	6,841	12,883	201.63	7,220	16,539
201.12	6,848	12,952	201.64	7,228	16,611
201.13	6,856	13,020	201.65	7,235	16,684
201.14	6,863	13,089	201.66	7,242	16,756
201.15	6,870	13,157	201.67	7,249	16,828
201.16	6,878	13,226	201.68	7,257	16,901
201.17	6,885	13,295	201.69	7,264	16,974
201.18	6,892	13,364	201.70	7,271	17,046
201.19	6,900	13,433	201.71	7,279	17,119
201.20	6,907	13,502	201.72	7,286	17,192
201.21	6,914	13,571	201.73	7,293	17,265
201.22	6,921	13,640	201.74	7,300	17,338
201.23	6,929	13,709	201.75	7,308	17,411
201.24	6,936	13,779	201.76	7,315	17,484
201.25	6,943	13,848	201.77	7,322	17,557
201.26	6,951	13,918	201.78	7,330	17,630
201.27	6,958	13,987	201.79	7,337	17,704
201.28	6,965	14,057	201.80	7,344	17,777
201.29	6,972	14,126	201.81	7,351	17,851
201.30	6,980	14,196	201.82	7,359	17,924
201.31	6,987	14,266	201.83	7,366	17,998
201.32	6,994	14,336	201.84	7,373	18,071
201.33	7,002	14,406	201.85	7,381	18,145
201.34	7,009	14,476	201.86	7,388	18,219
201.35	7,016	14,546	201.87	7,395	18,293
201.36	7,023	14,616	201.88	7,403	18,367
201.37	7,031	14,686	201.89	7,410	18,441
201.38	7,038	14,757	201.90	7,417	18,515
201.39	7,045	14,827	201.91	7,424	18,589
201.40	7,053	14,898	201.92	7,432	18,664
201.41	7,060	14,968	201.93	7,439	18,738
201.42	7,067	15,039	201.94	7,446	18,812
201.43	7,074	15,110	201.95	7,454	18,887
201.44	7,082	15,180	201.96	7,461	18,961
201.45	7,089	15,251	201.97	7,468	19,036
201.46	7,096	15,322	201.98	7,475	19,111
201.47	7,104	15,393	201.99	7,483	19,186
201.48	7,111	15,464	202.00	7,490	19,261
201.49	7,118	15,535	202.01	7,498	19,335
201.50	7,126	15,607	202.02	7,505	19,410
201.51	7,133	15,678	202.03	7,513	19,486
201.52	7,140	15,749	202.04	7,520	19,561
201.53	7,147	15,821	202.05	7,528	19,636
201.54	7,155	15,892	202.06	7,535	19,711
201.55	7,162	15,964	202.07	7,543	19,787
201.56	7,169	16,035	202.08	7,551	19,862
201.57	7,177	16,107	202.09	7,558	19,938
201.58	7,184	16,179	202.10	7,566	20,013
201.59	7,191	16,251	202.11	7,573	20,089

Stage-Area-Storage for Pond B-6: Basin #6 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
202.12	7,581	20,165	202.64	7,974	24,209
202.13	7,588	20,241	202.65	7,982	24,289
202.14	7,596	20,317	202.66	7,990	24,369
202.15	7,604	20,393	202.67	7,997	24,449
202.16	7,611	20,469	202.68	8,005	24,529
202.17	7,619	20,545	202.69	8,012	24,609
202.18	7,626	20,621	202.70	8,020	24,689
202.19	7,634	20,697	202.71	8,027	24,769
202.20	7,641	20,774	202.72	8,035	24,850
202.21	7,649	20,850	202.73	8,043	24,930
202.22	7,657	20,927	202.74	8,050	25,010
202.23	7,664	21,003	202.75	8,058	25,091
202.24	7,672	21,080	202.76	8,065	25,172
202.25	7,679	21,157	202.77	8,073	25,252
202.26	7,687	21,233	202.78	8,080	25,333
202.27	7,694	21,310	202.79	8,088	25,414
202.28	7,702	21,387	202.80	8,096	25,495
202.29	7,710	21,464	202.81	8,103	25,576
202.30	7,717	21,542	202.82	8,111	25,657
202.31	7,725	21,619	202.83	8,118	25,738
202.32	7,732	21,696	202.84	8,126	25,819
202.33	7,740	21,773	202.85	8,133	25,900
202.34	7,747	21,851	202.86	8,141	25,982
202.35	7,755	21,928	202.87	8,149	26,063
202.36	7,763	22,006	202.88	8,156	26,145
202.37	7,770	22,084	202.89	8,164	26,226
202.38	7,778	22,161	202.90	8,171	26,308
202.39	7,785	22,239	202.91	8,179	26,390
202.40	7,793	22,317	202.92	8,186	26,472
202.41	7,800	22,395	202.93	8,194	26,554
202.42	7,808	22,473	202.94	8,202	26,636
202.43	7,816	22,551	202.95	8,209	26,718
202.44	7,823	22,629	202.96	8,217	26,800
202.45	7,831	22,708	202.97	8,224	26,882
202.46	7,838	22,786	202.98	8,232	26,964
202.47	7,846	22,864	202.99	8,239	27,047
202.48	7,853	22,943	203.00	8,247	27,129
202.49	7,861	23,021	203.01	8,255	27,212
202.50	7,869	23,100	203.02	8,263	27,294
202.51	7,876	23,179	203.03	8,271	27,377
202.52	7,884	23,258	203.04	8,278	27,460
202.53	7,891	23,337	203.05	8,286	27,542
202.54	7,899	23,415	203.06	8,294	27,625
202.55	7,906	23,494	203.07	8,302	27,708
202.56	7,914	23,574	203.08	8,310	27,791
202.57	7,921	23,653	203.09	8,318	27,874
202.58	7,929	23,732	203.10	8,325	27,958
202.59	7,937	23,811	203.11	8,333	28,041
202.60	7,944	23,891	203.12	8,341	28,124
202.61	7,952	23,970	203.13	8,349	28,208
202.62	7,959	24,050	203.14	8,357	28,291
202.63	7,967	24,129	203.15	8,365	28,375

Stage-Area-Storage for Pond B-6: Basin #6 (continued)

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
203.16	8,373	28,459	203.68	8,781	32,918
203.17	8,380	28,542	203.69	8,789	33,006
203.18	8,388	28,626	203.70	8,796	33,094
203.19	8,396	28,710	203.71	8,804	33,182
203.20	8,404	28,794	203.72	8,812	33,270
203.21	8,412	28,878	203.73	8,820	33,358
203.22	8,420	28,962	203.74	8,828	33,447
203.23	8,428	29,047	203.75	8,836	33,535
203.24	8,435	29,131	203.76	8,844	33,623
203.25	8,443	29,215	203.77	8,851	33,712
203.26	8,451	29,300	203.78	8,859	33,800
203.27	8,459	29,384	203.79	8,867	33,889
203.28	8,467	29,469	203.80	8,875	33,978
203.29	8,475	29,554	203.81	8,883	34,067
203.30	8,483	29,638	203.82	8,891	34,155
203.31	8,490	29,723	203.83	8,899	34,244
203.32	8,498	29,808	203.84	8,906	34,333
203.33	8,506	29,893	203.85	8,914	34,423
203.34	8,514	29,978	203.86	8,922	34,512
203.35	8,522	30,064	203.87	8,930	34,601
203.36	8,530	30,149	203.88	8,938	34,690
203.37	8,537	30,234	203.89	8,946	34,780
203.38	8,545	30,320	203.90	8,954	34,869
203.39	8,553	30,405	203.91	8,961	34,959
203.40	8,561	30,491	203.92	8,969	35,048
203.41	8,569	30,576	203.93	8,977	35,138
203.42	8,577	30,662	203.94	8,985	35,228
203.43	8,585	30,748	203.95	8,993	35,318
203.44	8,592	30,834	203.96	9,001	35,408
203.45	8,600	30,920	203.97	9,008	35,498
203.46	8,608	31,006	203.98	9,016	35,588
203.47	8,616	31,092	203.99	9,024	35,678
203.48	8,624	31,178	204.00	9,032	35,769
203.49	8,632	31,264			
203.50	8,640	31,351			
203.51	8,647	31,437			
203.52	8,655	31,524			
203.53	8,663	31,610			
203.54	8,671	31,697			
203.55	8,679	31,784			
203.56	8,687	31,870			
203.57	8,694	31,957			
203.58	8,702	32,044			
203.59	8,710	32,131			
203.60	8,718	32,218			
203.61	8,726	32,306			
203.62	8,734	32,393			
203.63	8,742	32,480			
203.64	8,749	32,568			
203.65	8,757	32,655			
203.66	8,765	32,743			
203.67	8,773	32,831			

Summary for Pond B-7: Basin #7

Inflow Area = 1.564 ac, 62.85% Impervious, Inflow Depth = 7.28" for Current 100 yr event
 Inflow = 11.19 cfs @ 12.17 hrs, Volume= 0.948 af
 Outflow = 8.16 cfs @ 12.26 hrs, Volume= 0.863 af, Atten= 27%, Lag= 5.7 min
 Primary = 8.16 cfs @ 12.26 hrs, Volume= 0.863 af
 Routed to Link PDA-1 : Proposed Drainage Area #1

Routing by Stor-Ind method, Time Span= 0.00-40.00 hrs, dt= 0.05 hrs
 Peak Elev= 208.73' @ 12.26 hrs Surf.Area= 8,146 sf Storage= 14,250 cf

Plug-Flow detention time= 253.7 min calculated for 0.863 af (91% of inflow)
 Center-of-Mass det. time= 205.4 min (971.1 - 765.7)

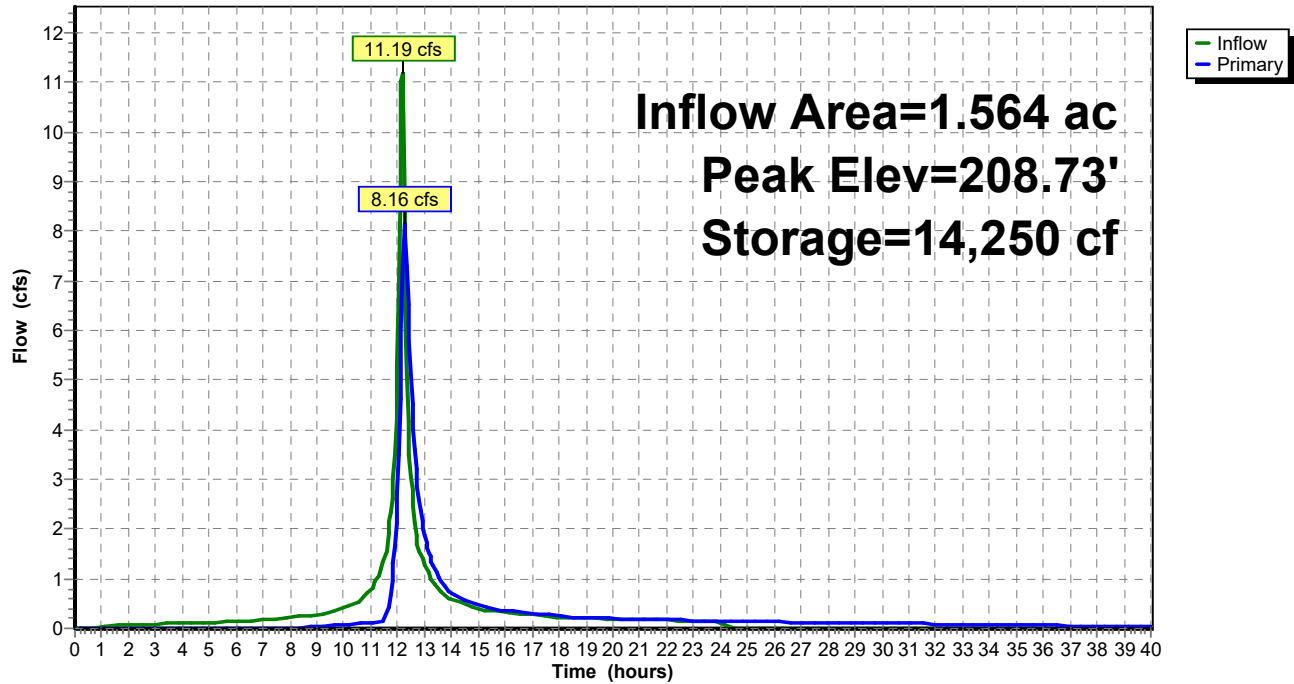
Volume	Invert	Avail.Storage	Storage Description
#1	206.47'	35,530 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
206.47	0	0	0
207.00	6,419	1,701	1,701
208.00	7,395	6,907	8,608
209.00	8,429	7,912	16,520
210.00	9,484	8,957	25,477
211.00	10,623	10,054	35,530

Device	Routing	Invert	Outlet Devices
#1	Primary	206.47'	18.0" Round Culvert L= 94.0' Ke= 0.500 Inlet / Outlet Invert= 206.47' / 206.00' S= 0.0050 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	207.17'	2.5" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Device 1	207.99'	4.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Primary	208.86'	50.0' long + 3.0 ' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=8.07 cfs @ 12.26 hrs HW=208.72' (Free Discharge)

1=Culvert (Passes 8.07 cfs of 8.73 cfs potential flow)
 2=Orifice/Grate (Orifice Controls 0.20 cfs @ 5.79 fps)
 3=Sharp-Crested Rectangular Weir (Weir Controls 7.87 cfs @ 2.80 fps)
 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond B-7: Basin #7**Hydrograph**

Stage-Discharge for Pond B-7: Basin #7

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
206.47	0.00	206.99	0.00	207.51	0.08	208.03	0.25
206.48	0.00	207.00	0.00	207.52	0.08	208.04	0.29
206.49	0.00	207.01	0.00	207.53	0.08	208.05	0.34
206.50	0.00	207.02	0.00	207.54	0.08	208.06	0.39
206.51	0.00	207.03	0.00	207.55	0.09	208.07	0.44
206.52	0.00	207.04	0.00	207.56	0.09	208.08	0.50
206.53	0.00	207.05	0.00	207.57	0.09	208.09	0.56
206.54	0.00	207.06	0.00	207.58	0.09	208.10	0.62
206.55	0.00	207.07	0.00	207.59	0.09	208.11	0.69
206.56	0.00	207.08	0.00	207.60	0.09	208.12	0.76
206.57	0.00	207.09	0.00	207.61	0.10	208.13	0.83
206.58	0.00	207.10	0.00	207.62	0.10	208.14	0.91
206.59	0.00	207.11	0.00	207.63	0.10	208.15	0.98
206.60	0.00	207.12	0.00	207.64	0.10	208.16	1.06
206.61	0.00	207.13	0.00	207.65	0.10	208.17	1.15
206.62	0.00	207.14	0.00	207.66	0.10	208.18	1.23
206.63	0.00	207.15	0.00	207.67	0.10	208.19	1.32
206.64	0.00	207.16	0.00	207.68	0.10	208.20	1.40
206.65	0.00	207.17	0.00	207.69	0.11	208.21	1.49
206.66	0.00	207.18	0.00	207.70	0.11	208.22	1.59
206.67	0.00	207.19	0.00	207.71	0.11	208.23	1.68
206.68	0.00	207.20	0.00	207.72	0.11	208.24	1.78
206.69	0.00	207.21	0.00	207.73	0.11	208.25	1.87
206.70	0.00	207.22	0.00	207.74	0.11	208.26	1.97
206.71	0.00	207.23	0.01	207.75	0.11	208.27	2.07
206.72	0.00	207.24	0.01	207.76	0.11	208.28	2.18
206.73	0.00	207.25	0.01	207.77	0.12	208.29	2.28
206.74	0.00	207.26	0.01	207.78	0.12	208.30	2.39
206.75	0.00	207.27	0.02	207.79	0.12	208.31	2.50
206.76	0.00	207.28	0.02	207.80	0.12	208.32	2.61
206.77	0.00	207.29	0.02	207.81	0.12	208.33	2.72
206.78	0.00	207.30	0.03	207.82	0.12	208.34	2.83
206.79	0.00	207.31	0.03	207.83	0.12	208.35	2.94
206.80	0.00	207.32	0.03	207.84	0.12	208.36	3.06
206.81	0.00	207.33	0.04	207.85	0.12	208.37	3.18
206.82	0.00	207.34	0.04	207.86	0.13	208.38	3.30
206.83	0.00	207.35	0.05	207.87	0.13	208.39	3.42
206.84	0.00	207.36	0.05	207.88	0.13	208.40	3.54
206.85	0.00	207.37	0.05	207.89	0.13	208.41	3.66
206.86	0.00	207.38	0.05	207.90	0.13	208.42	3.78
206.87	0.00	207.39	0.06	207.91	0.13	208.43	3.91
206.88	0.00	207.40	0.06	207.92	0.13	208.44	4.04
206.89	0.00	207.41	0.06	207.93	0.13	208.45	4.16
206.90	0.00	207.42	0.06	207.94	0.13	208.46	4.29
206.91	0.00	207.43	0.06	207.95	0.13	208.47	4.42
206.92	0.00	207.44	0.07	207.96	0.14	208.48	4.56
206.93	0.00	207.45	0.07	207.97	0.14	208.49	4.69
206.94	0.00	207.46	0.07	207.98	0.14	208.50	4.82
206.95	0.00	207.47	0.07	207.99	0.14	208.51	4.96
206.96	0.00	207.48	0.07	208.00	0.15	208.52	5.10
206.97	0.00	207.49	0.08	208.01	0.18	208.53	5.23
206.98	0.00	207.50	0.08	208.02	0.21	208.54	5.37

Stage-Discharge for Pond B-7: Basin #7 (continued)

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
208.55	5.51	209.07	21.32	209.59	98.16	210.11	209.61
208.56	5.65	209.08	22.22	209.60	99.98	210.12	212.05
208.57	5.80	209.09	23.15	209.61	101.82	210.13	214.51
208.58	5.94	209.10	24.10	209.62	103.67	210.14	216.97
208.59	6.08	209.11	25.08	209.63	105.53	210.15	219.45
208.60	6.23	209.12	26.09	209.64	107.40	210.16	221.94
208.61	6.38	209.13	27.12	209.65	109.28	210.17	224.43
208.62	6.52	209.14	28.17	209.66	111.18	210.18	226.94
208.63	6.67	209.15	29.25	209.67	113.13	210.19	229.46
208.64	6.82	209.16	30.35	209.68	115.09	210.20	231.98
208.65	6.97	209.17	31.48	209.69	117.06	210.21	234.52
208.66	7.13	209.18	32.63	209.70	119.05	210.22	237.07
208.67	7.28	209.19	33.81	209.71	121.05	210.23	239.63
208.68	7.43	209.20	35.01	209.72	123.06	210.24	242.20
208.69	7.59	209.21	36.23	209.73	125.08	210.25	244.78
208.70	7.74	209.22	37.48	209.74	127.12	210.26	247.37
208.71	7.90	209.23	38.75	209.75	129.17	210.27	250.01
208.72	8.06	209.24	40.05	209.76	131.24	210.28	252.67
208.73	8.22	209.25	41.37	209.77	133.31	210.29	255.33
208.74	8.38	209.26	42.72	209.78	135.40	210.30	258.01
208.75	8.54	209.27	44.11	209.79	137.50	210.31	260.70
208.76	8.70	209.28	45.53	209.80	139.62	210.32	263.40
208.77	8.86	209.29	46.98	209.81	141.75	210.33	266.11
208.78	8.94	209.30	48.45	209.82	143.89	210.34	268.83
208.79	8.98	209.31	49.95	209.83	146.04	210.35	271.57
208.80	9.01	209.32	51.48	209.84	148.21	210.36	274.31
208.81	9.05	209.33	53.03	209.85	150.38	210.37	277.07
208.82	9.08	209.34	54.61	209.86	152.57	210.38	279.83
208.83	9.12	209.35	56.21	209.87	154.72	210.39	282.61
208.84	9.15	209.36	57.84	209.88	156.88	210.40	285.40
208.85	9.18	209.37	59.50	209.89	159.06	210.41	288.20
208.86	9.22	209.38	61.19	209.90	161.24	210.42	291.01
208.87	9.37	209.39	62.90	209.91	163.43	210.43	293.83
208.88	9.62	209.40	64.63	209.92	165.63	210.44	296.66
208.89	9.93	209.41	66.40	209.93	167.84	210.45	299.50
208.90	10.29	209.42	68.19	209.94	170.07	210.46	302.35
208.91	10.70	209.43	70.00	209.95	172.30	210.47	305.22
208.92	11.14	209.44	71.85	209.96	174.55	210.48	308.09
208.93	11.63	209.45	73.72	209.97	176.80	210.49	310.98
208.94	12.14	209.46	75.61	209.98	179.07	210.50	313.88
208.95	12.69	209.47	77.27	209.99	181.34	210.51	316.78
208.96	13.27	209.48	78.94	210.00	183.63	210.52	319.70
208.97	13.87	209.49	80.62	210.01	185.92	210.53	322.63
208.98	14.51	209.50	82.32	210.02	188.23	210.54	325.57
208.99	15.17	209.51	84.02	210.03	190.54	210.55	328.52
209.00	15.85	209.52	85.75	210.04	192.87	210.56	331.48
209.01	16.56	209.53	87.48	210.05	195.20	210.57	334.45
209.02	17.29	209.54	89.23	210.06	197.55	210.58	337.44
209.03	18.04	209.55	90.99	210.07	199.94	210.59	340.43
209.04	18.82	209.56	92.76	210.08	202.34	210.60	343.43
209.05	19.62	209.57	94.55	210.09	204.75	210.61	346.45
209.06	20.44	209.58	96.35	210.10	207.18	210.62	349.47