

# Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Friday, Jun 12 2009, 10:0 AM

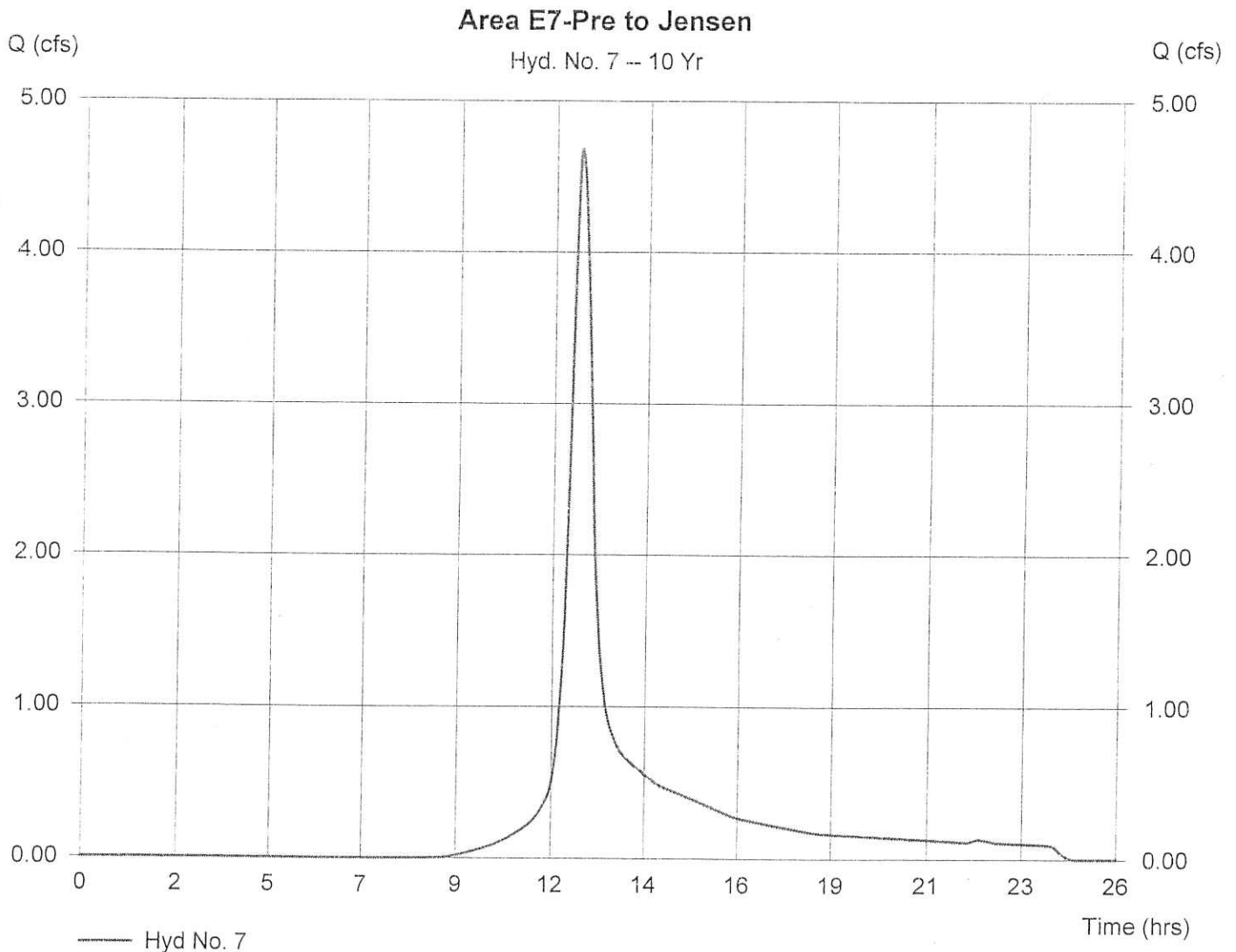
## Hyd. No. 7

Area E7-Pre to Jensen

Hydrograph type = SCS Runoff  
 Storm frequency = 10 yrs  
 Drainage area = 2.420 ac  
 Basin Slope = 0.0 %  
 Tc method = USER  
 Total precip. = 5.50 in  
 Storm duration = 24 hrs

Peak discharge = 4.685 cfs  
 Time interval = 2 min  
 Curve number = 73  
 Hydraulic length = 0 ft  
 Time of conc. (Tc) = 23.76 min  
 Distribution = Type III  
 Shape factor = 484

Hydrograph Volume = 23,165 cuft



# Hydrograph Plot

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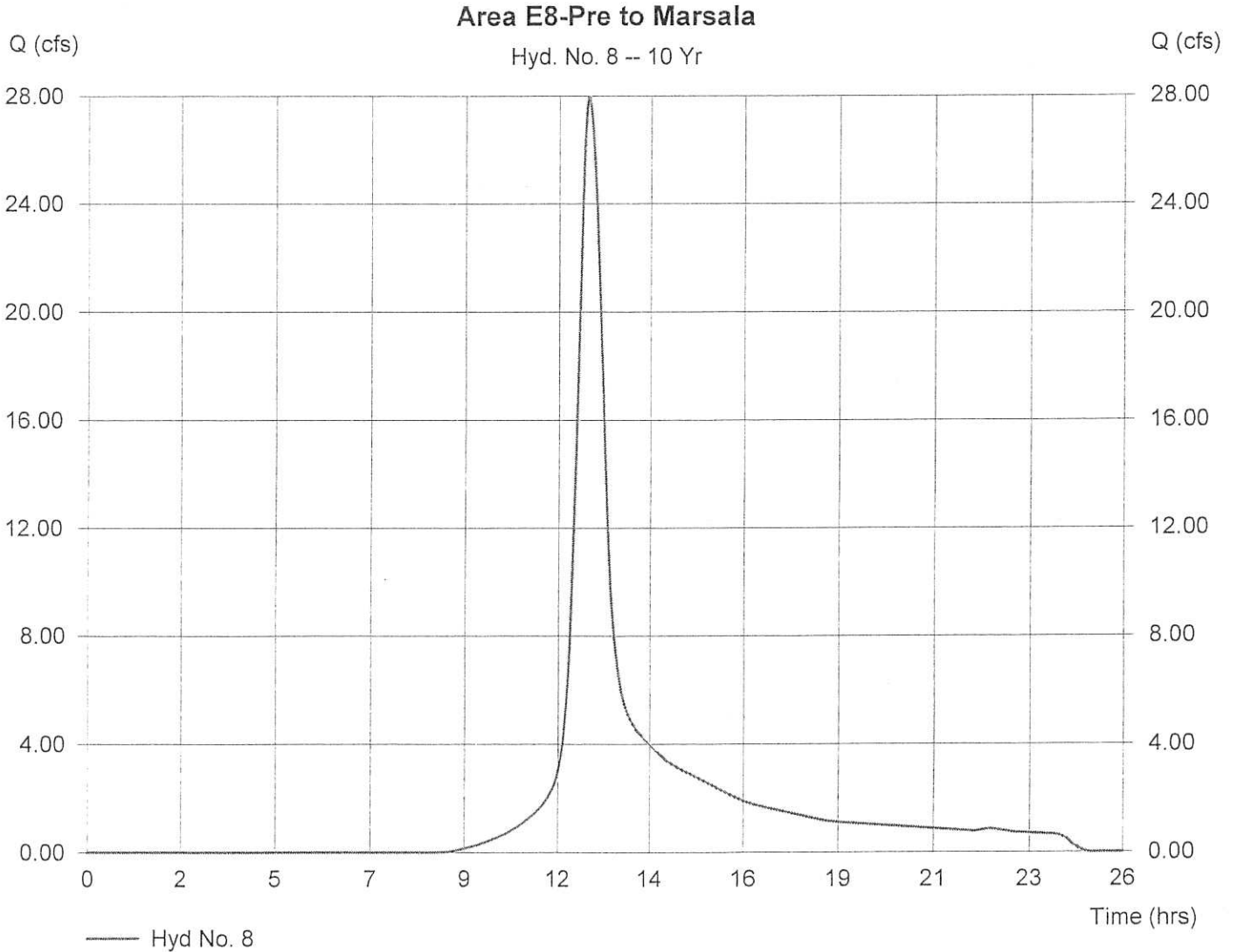
## Hyd. No. 8

Area E8-Pre to Marsala

Hydrograph type = SCS Runoff  
Storm frequency = 10 yrs  
Drainage area = 16.130 ac  
Basin Slope = 0.0 %  
Tc method = USER  
Total precip. = 5.50 in  
Storm duration = 24 hrs

Peak discharge = 27.97 cfs  
Time interval = 2 min  
Curve number = 74  
Hydraulic length = 0 ft  
Time of conc. (Tc) = 34.56 min  
Distribution = Type III  
Shape factor = 484

Hydrograph Volume = 160,298 cuft



# Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Friday, Jun 12 2009, 10:0 AM

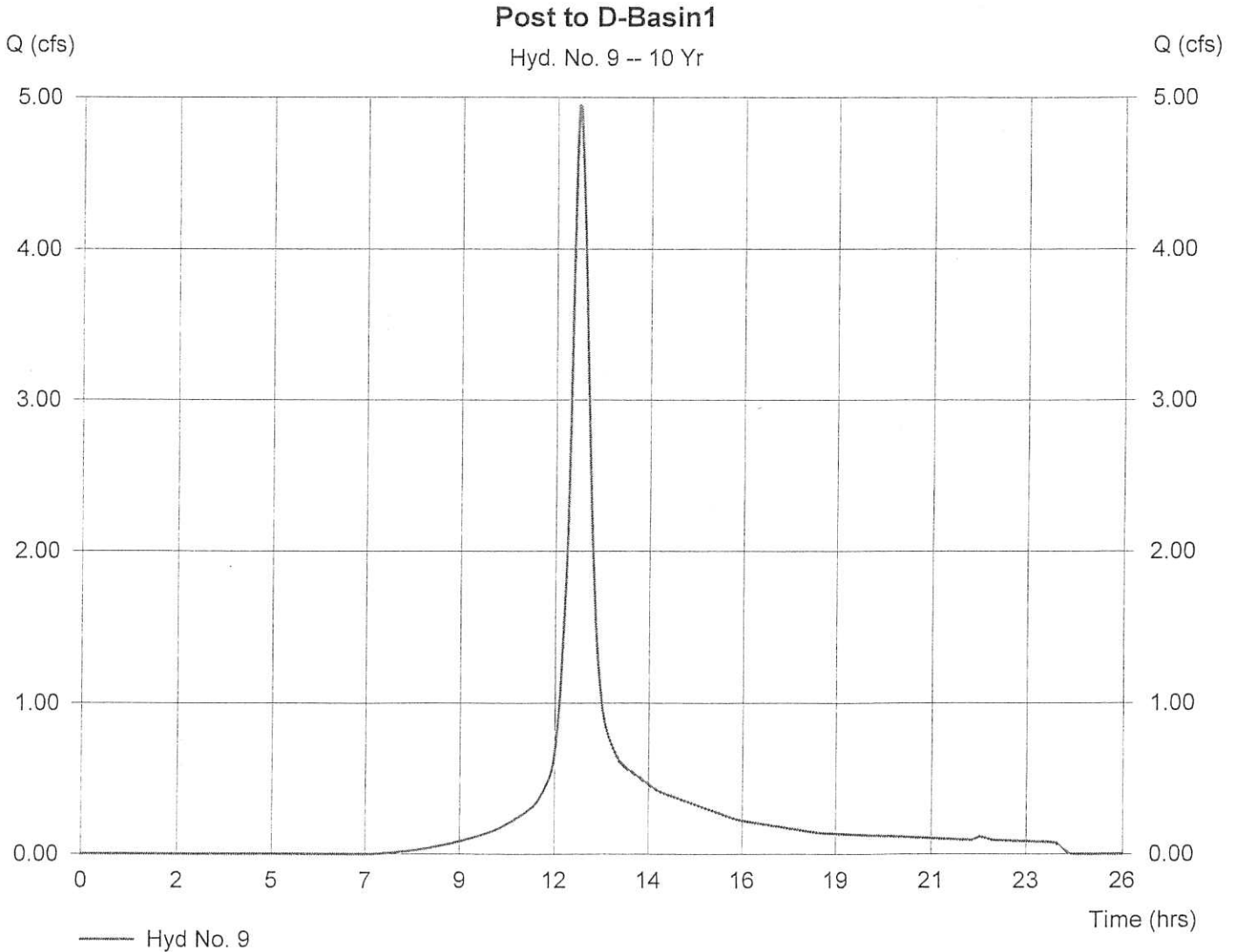
## Hyd. No. 9

Post to D-Basin1

Hydrograph type = SCS Runoff  
Storm frequency = 10 yrs  
Drainage area = 1.810 ac  
Basin Slope = 0.0 %  
Tc method = USER  
Total precip. = 5.50 in  
Storm duration = 24 hrs

Peak discharge = 4.948 cfs  
Time interval = 2 min  
Curve number = 80  
Hydraulic length = 0 ft  
Time of conc. (Tc) = 18.00 min  
Distribution = Type III  
Shape factor = 484

Hydrograph Volume = 21,901 cuft



# Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Friday, Jun 12 2009, 10:0 AM

## Hyd. No. 10

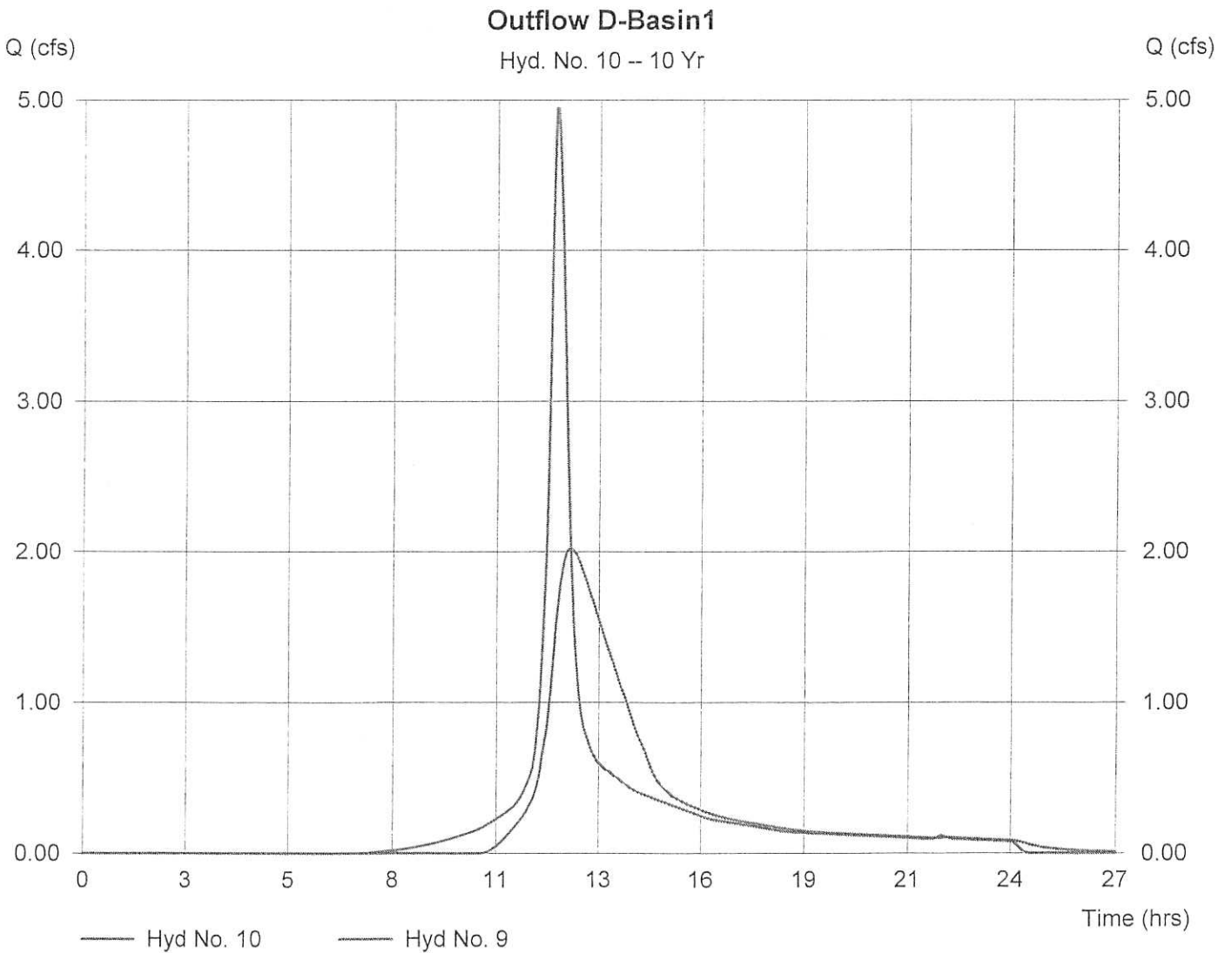
Outflow D-Basin1

Hydrograph type = Reservoir  
Storm frequency = 10 yrs  
Inflow hyd. No. = 9  
Reservoir name = D-Basin1

Peak discharge = 2.020 cfs  
Time interval = 2 min  
Max. Elevation = 317.28 ft  
Max. Storage = 6,840 cuft

Storage Indication method used.

Hydrograph Volume = 21,246 cuft



# Pond Report

Hydraflow Hydrographs by Intelisolve

Friday, Jun 12 2009, 10:0 AM

## Pond No. 1 - D-Basin1

### Pond Data

Pond storage is based on known contour areas. Average end area method used.

### Stage / Storage Table

Stage (ft)	Elevation (ft)	Contour area (sqft)	Incr. Storage (cuft)	Total storage (cuft)
0.00	315.00	725	0	0
0.50	315.50	1,843	642	642
1.00	316.00	2,960	1,201	1,843
3.00	318.00	4,850	7,810	9,653
3.70	318.70	5,630	3,668	13,321

### Culvert / Orifice Structures

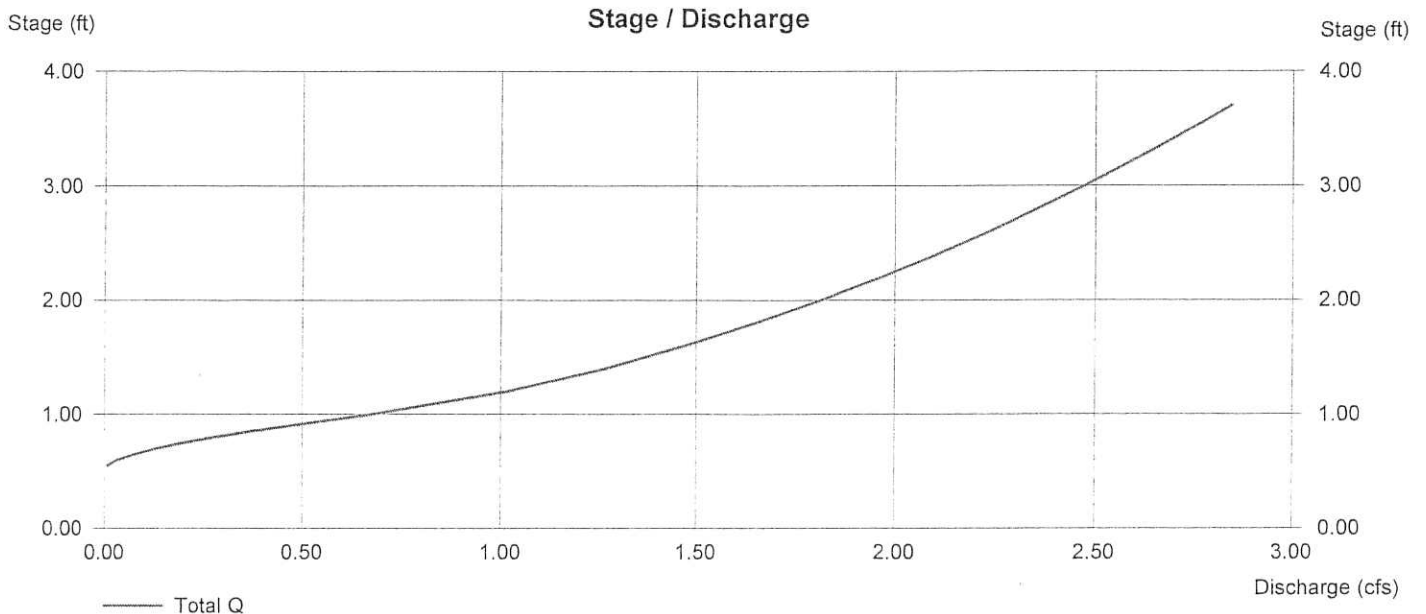
	[A]	[B]	[C]	[D]
Rise (in)	= 8.00	0.00	0.00	0.00
Span (in)	= 8.00	0.00	0.00	0.00
No. Barrels	= 1	0	0	0
Invert El. (ft)	= 315.50	0.00	0.00	0.00
Length (ft)	= 0.00	0.00	0.00	0.00
Slope (%)	= 0.00	0.00	0.00	0.00
N-Value	= .013	.000	.000	.000
Orif. Coeff.	= 0.60	0.00	0.00	0.00
Multi-Stage	= n/a	No	No	No

### Weir Structures

	[A]	[B]	[C]	[D]
Crest Len (ft)	= 0.00	0.00	0.00	0.00
Crest El. (ft)	= 0.00	0.00	0.00	0.00
Weir Coeff.	= 0.00	0.00	0.00	0.00
Weir Type	= ---	---	---	---
Multi-Stage	= No	No	No	No

Exfiltration = 0.000 in/hr (Contour) Tailwater Elev. = 0.00 ft

Note: Culvert/Orifice outflows have been analyzed under inlet and outlet control.



# Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Friday, Jun 12 2009, 10:0 AM

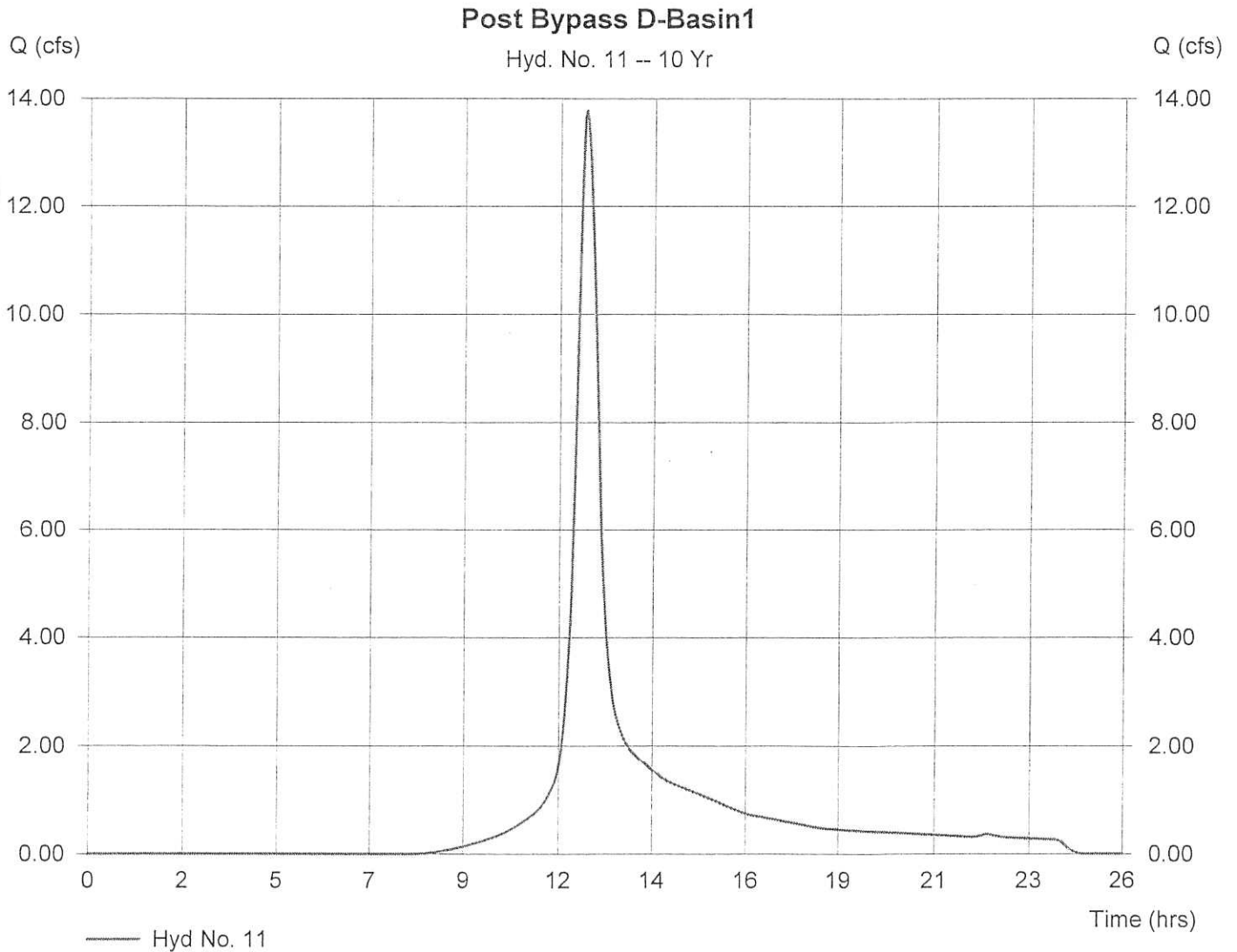
## Hyd. No. 11

Post Bypass D-Basin1

Hydrograph type = SCS Runoff  
 Storm frequency = 10 yrs  
 Drainage area = 6.430 ac  
 Basin Slope = 0.0 %  
 Tc method = USER  
 Total precip. = 5.50 in  
 Storm duration = 24 hrs

Peak discharge = 13.78 cfs  
 Time interval = 2 min  
 Curve number = 76  
 Hydraulic length = 0 ft  
 Time of conc. (Tc) = 26.16 min  
 Distribution = Type III  
 Shape factor = 484

Hydrograph Volume = 67,848 cuft



# Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Friday, Jun 12 2009, 10:0 AM

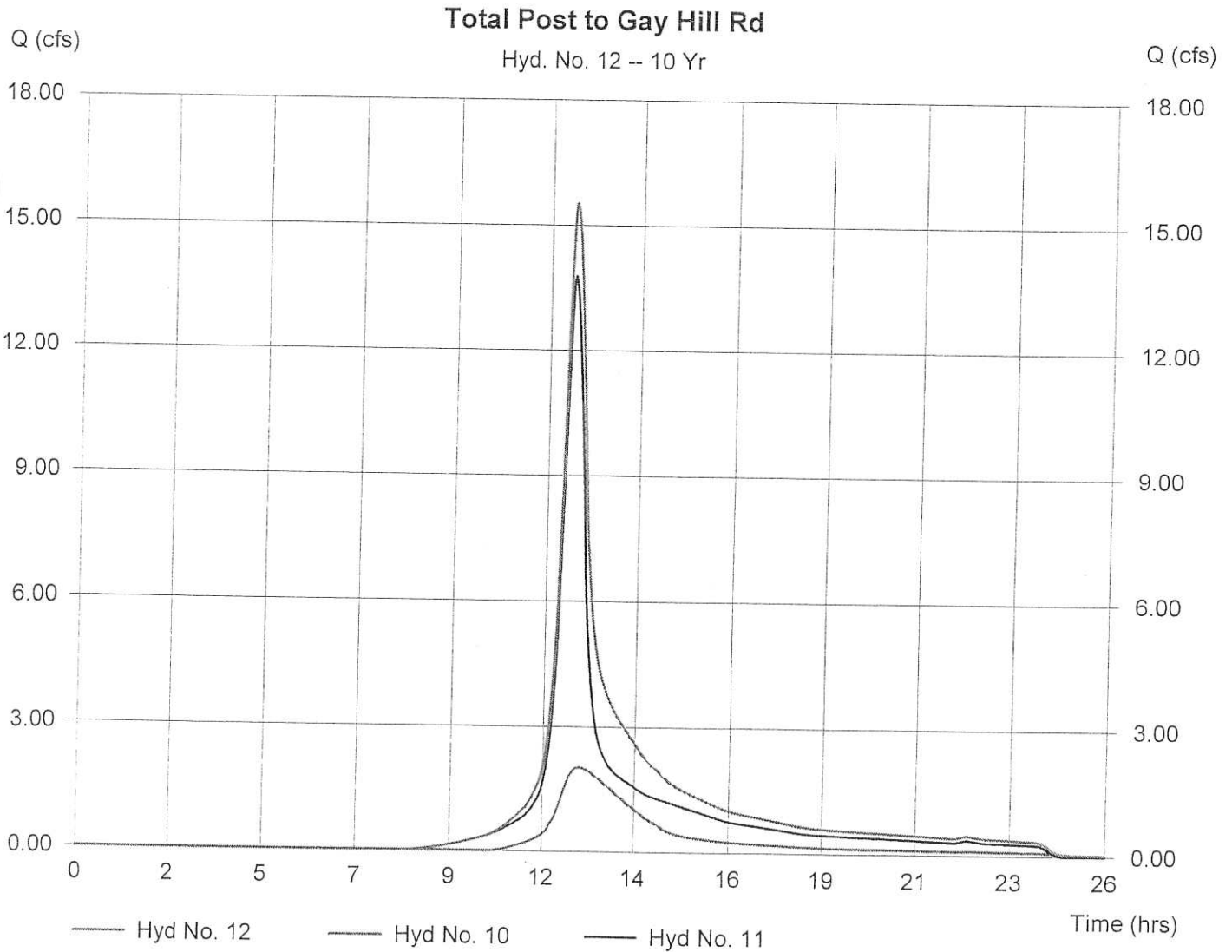
## Hyd. No. 12

Total Post to Gay Hill Rd

Hydrograph type = Combine  
Storm frequency = 10 yrs  
Inflow hyds. = 10, 11

Peak discharge = 15.53 cfs  
Time interval = 2 min

Hydrograph Volume = 89,094 cuft



# Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Friday, Jun 12 2009, 10:0 AM

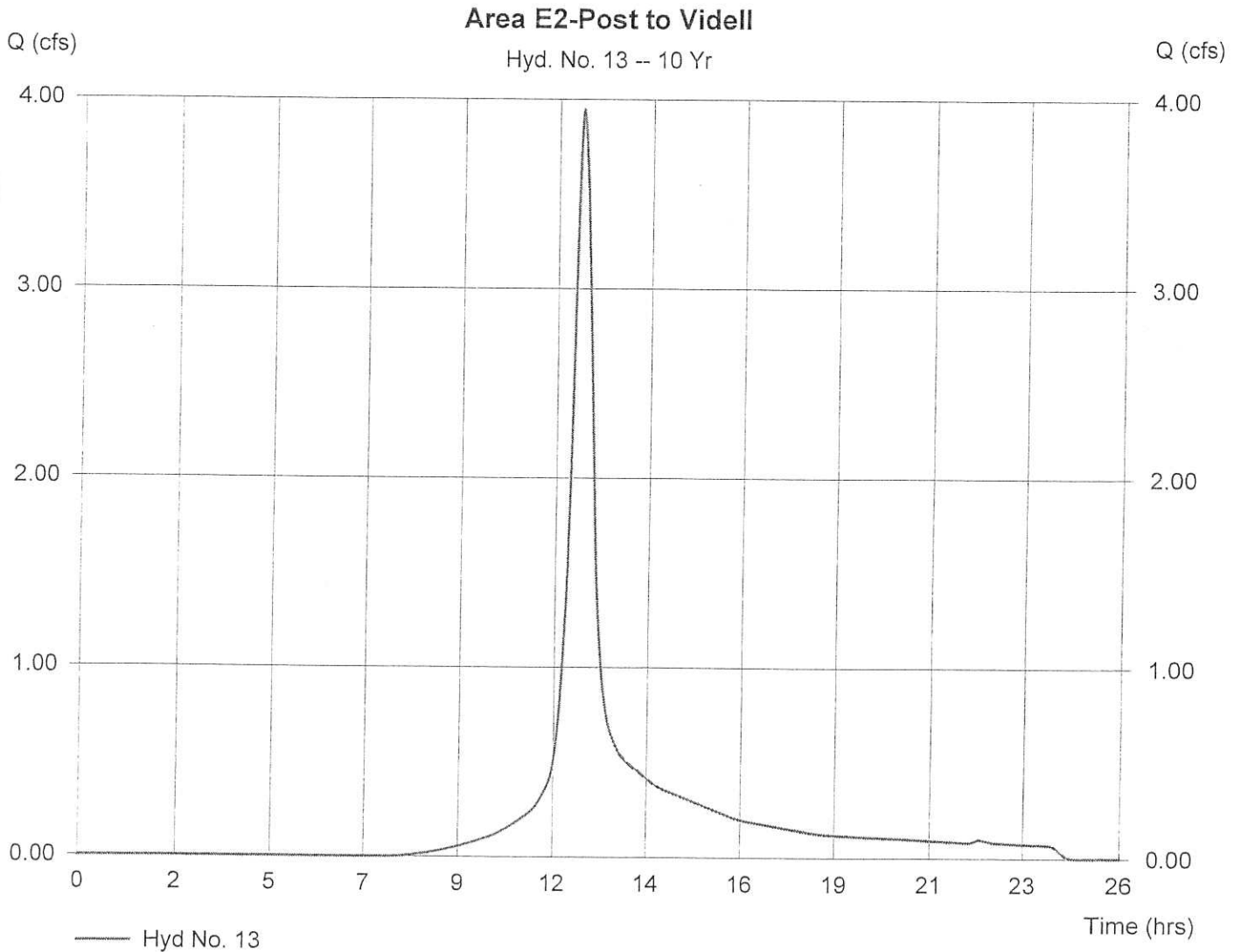
## Hyd. No. 13

Area E2-Post to Videll

Hydrograph type = SCS Runoff  
 Storm frequency = 10 yrs  
 Drainage area = 1.610 ac  
 Basin Slope = 0.0 %  
 Tc method = USER  
 Total precip. = 5.50 in  
 Storm duration = 24 hrs

Peak discharge = 3.951 cfs  
 Time interval = 2 min  
 Curve number = 78  
 Hydraulic length = 0 ft  
 Time of conc. (Tc) = 22.38 min  
 Distribution = Type III  
 Shape factor = 484

Hydrograph Volume = 18,685 cuft





# Hydrograph Plot

Hydraflow Hydrographs by Intelisoive

Friday, Jun 12 2009, 10:0 AM

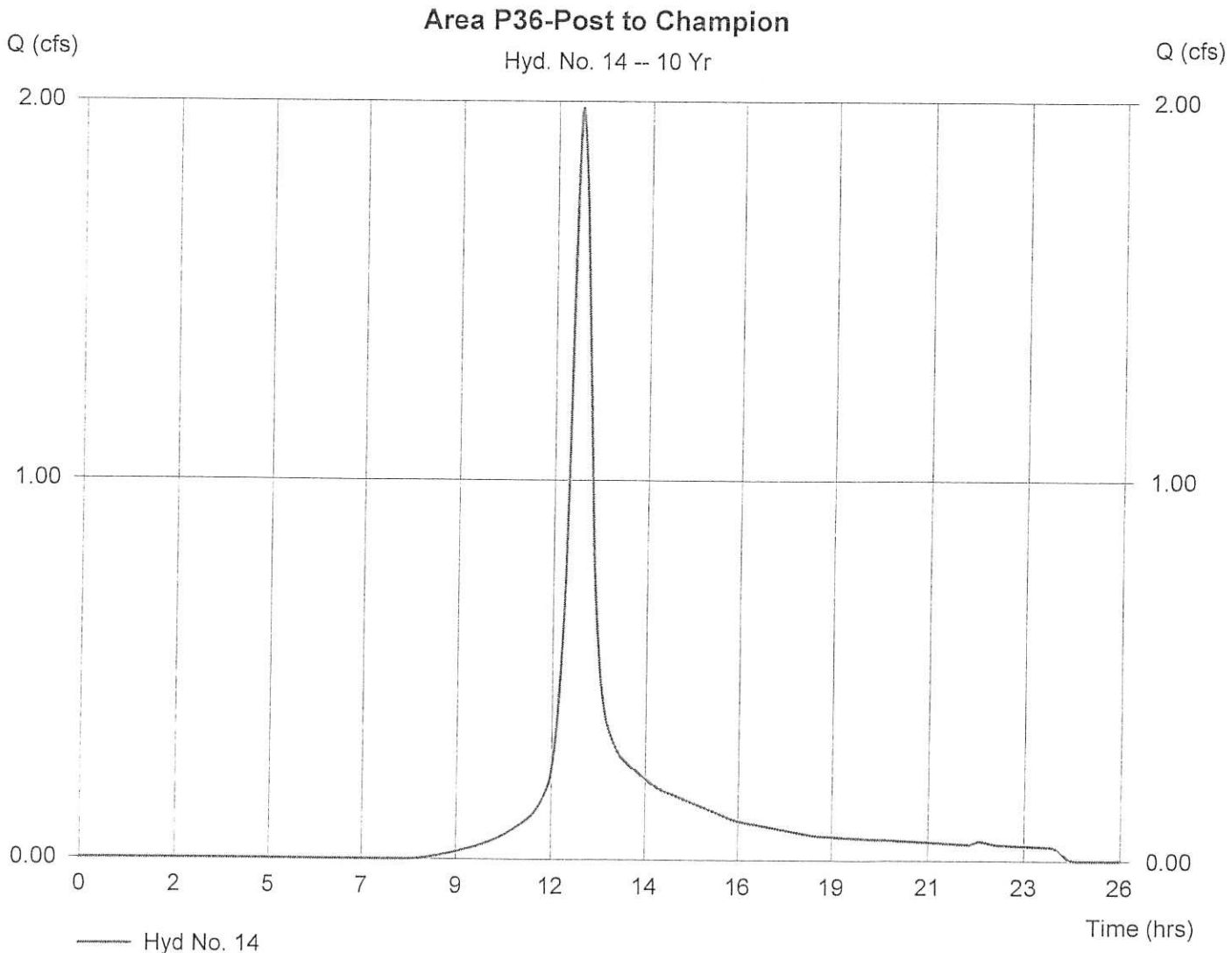
## Hyd. No. 14

Area P36-Post to Champion

Hydrograph type = SCS Runoff  
 Storm frequency = 10 yrs  
 Drainage area = 0.860 ac  
 Basin Slope = 0.0 %  
 Tc method = USER  
 Total precip. = 5.50 in  
 Storm duration = 24 hrs

Peak discharge = 1.983 cfs  
 Time interval = 2 min  
 Curve number = 76  
 Hydraulic length = 0 ft  
 Time of conc. (Tc) = 22.62 min  
 Distribution = Type III  
 Shape factor = 484

Hydrograph Volume = 9,383 cuft



# Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

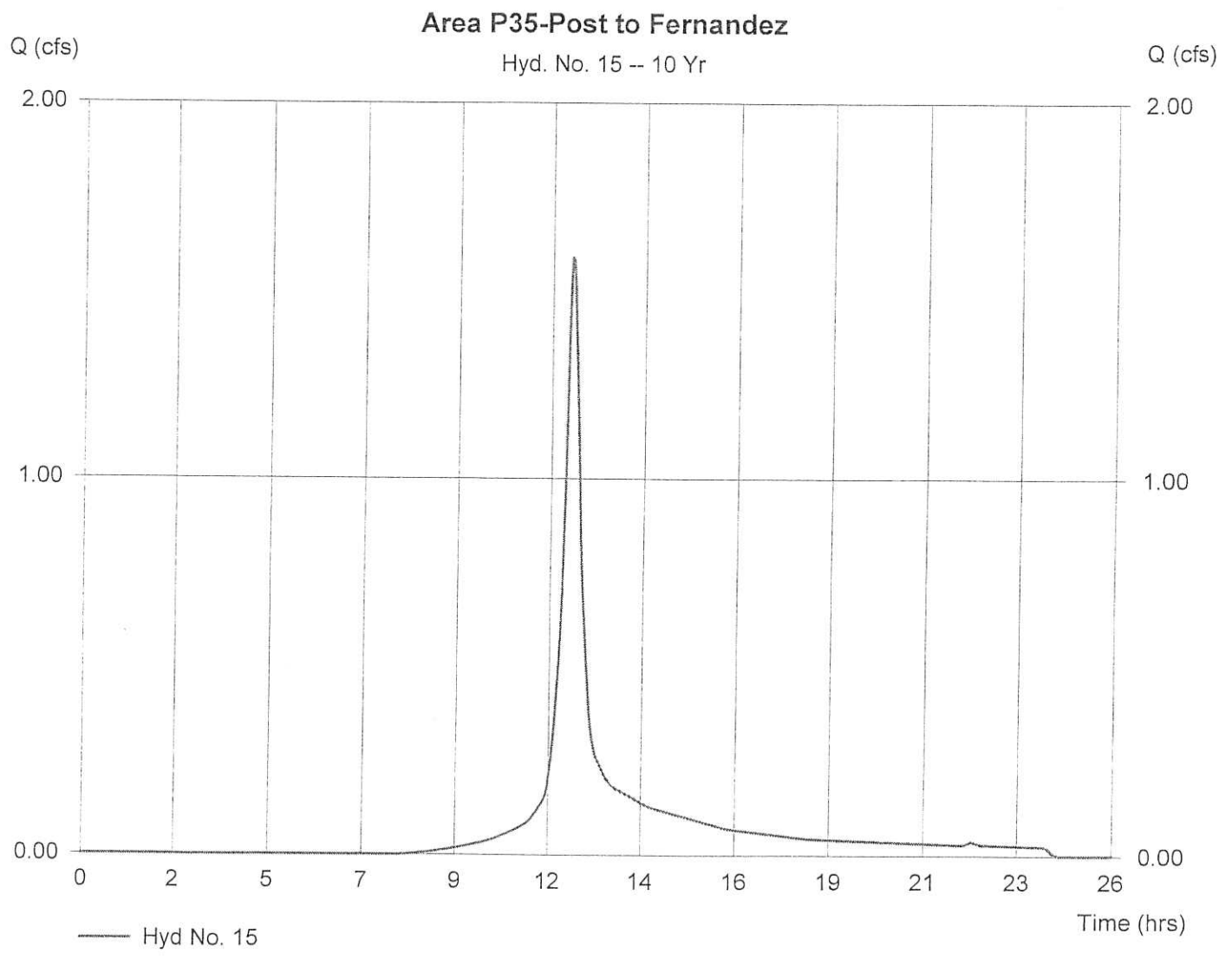
Friday, Jun 12 2009, 10:0 AM

## Hyd. No. 15

Area P35-Post to Fernandez

Hydrograph type	=	SCS Runoff	Peak discharge	=	1.589 cfs
Storm frequency	=	10 yrs	Time interval	=	2 min
Drainage area	=	0.600 ac	Curve number	=	77
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	USER	Time of conc. (Tc)	=	14.76 min
Total precip.	=	5.50 in	Distribution	=	Type III
Storm duration	=	24 hrs	Shape factor	=	484

Hydrograph Volume = 6,469 cuft



# Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Friday, Jun 12 2009, 10:0 AM

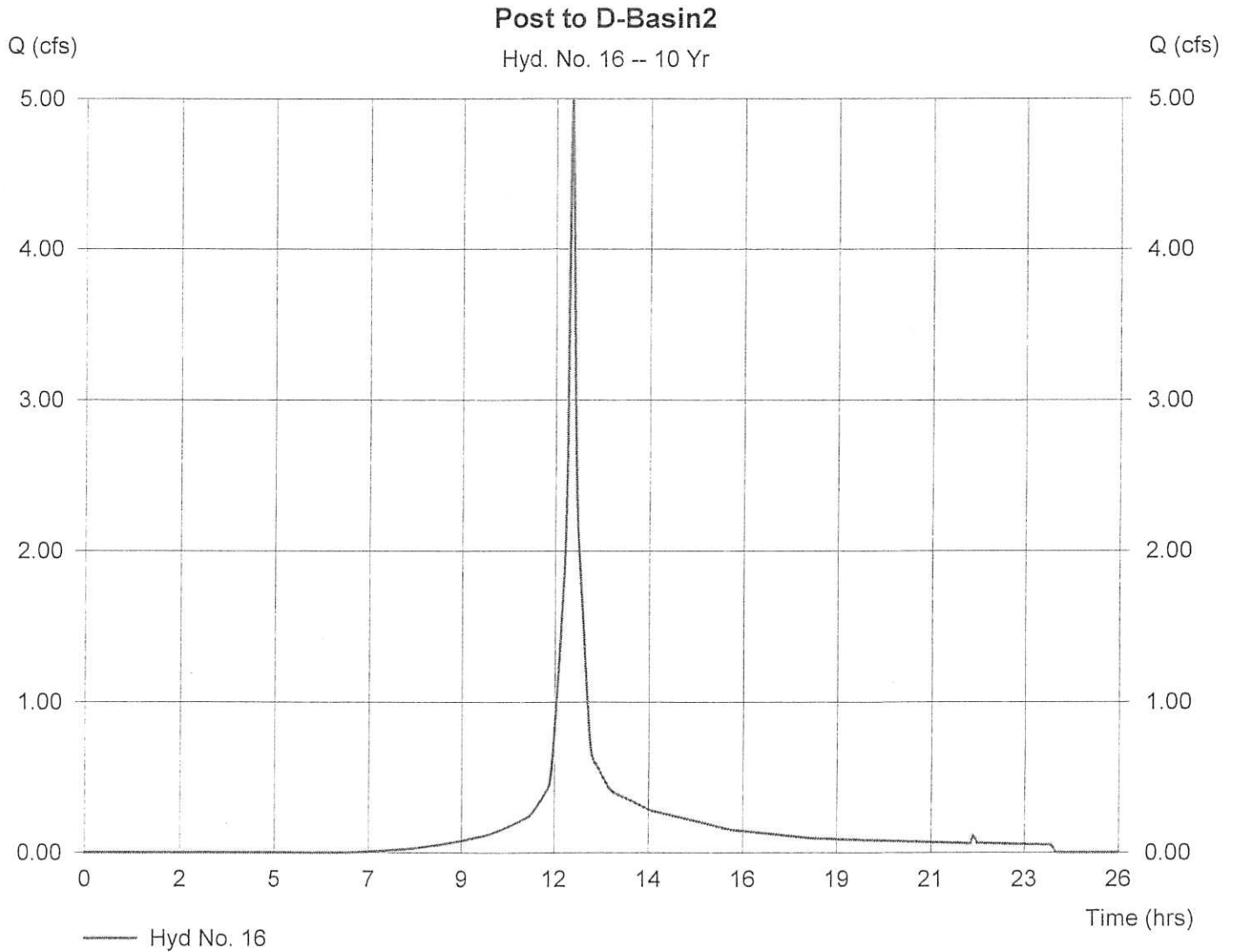
## Hyd. No. 16

Post to D-Basin2

Hydrograph type = SCS Runoff  
 Storm frequency = 10 yrs  
 Drainage area = 1.250 ac  
 Basin Slope = 0.0 %  
 Tc method = USER  
 Total precip. = 5.50 in  
 Storm duration = 24 hrs

Peak discharge = 4.987 cfs  
 Time interval = 2 min  
 Curve number = 82  
 Hydraulic length = 0 ft  
 Time of conc. (Tc) = 6.00 min  
 Distribution = Type III  
 Shape factor = 484

Hydrograph Volume = 15,016 cuft



# Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Friday, Jun 12 2009, 10:0 AM

## Hyd. No. 17

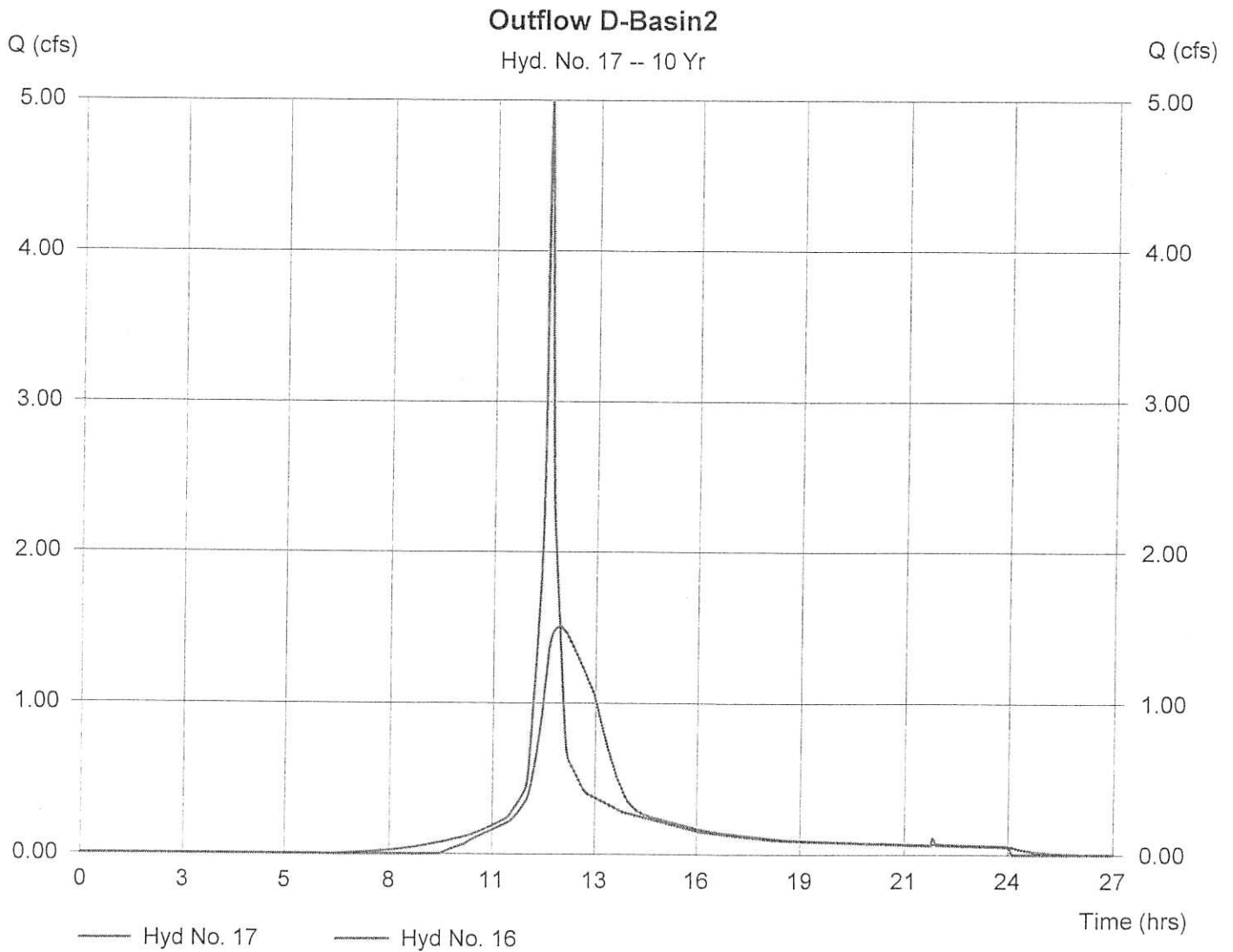
Outflow D-Basin2

Hydrograph type = Reservoir  
 Storm frequency = 10 yrs  
 Inflow hyd. No. = 16  
 Reservoir name = D-Basin2

Peak discharge = 1.506 cfs  
 Time interval = 2 min  
 Max. Elevation = 335.29 ft  
 Max. Storage = 4,042 cuft

Storage Indication method used.

Hydrograph Volume = 14,732 cuft



# Pond Report

Hydraflow Hydrographs by Intelisolve

Friday, Jun 12 2009, 10:0 AM

## Pond No. 2 - D-Basin2

### Pond Data

Pond storage is based on known contour areas. Average end area method used.

### Stage / Storage Table

Stage (ft)	Elevation (ft)	Contour area (sqft)	Incr. Storage (cuft)	Total storage (cuft)
0.00	332.00	465	0	0
0.50	332.50	663	282	282
2.00	334.00	1,260	1,442	1,724
4.00	336.00	2,335	3,595	5,319
5.50	337.50	3,800	4,601	9,921

### Culvert / Orifice Structures

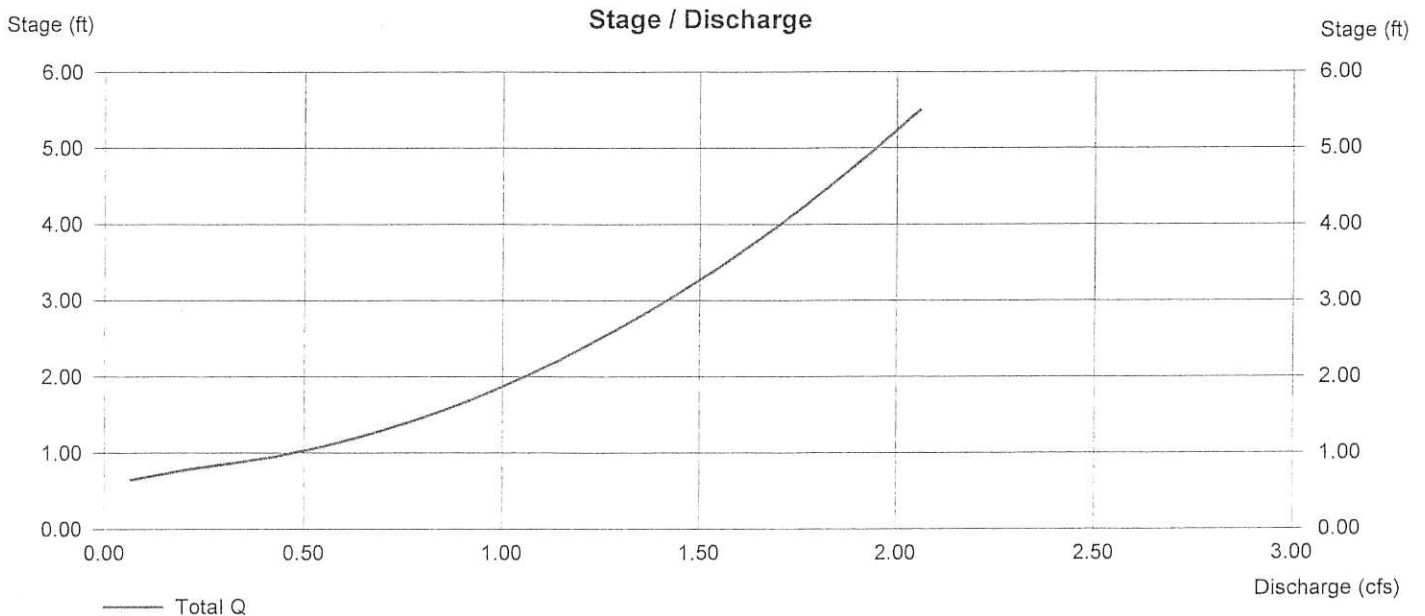
	[A]	[B]	[C]	[D]
Rise (in)	= 6.00	0.00	0.00	0.00
Span (in)	= 6.00	0.00	0.00	0.00
No. Barrels	= 1	0	0	0
Invert El. (ft)	= 332.50	0.00	0.00	0.00
Length (ft)	= 0.00	0.00	0.00	0.00
Slope (%)	= 0.00	0.00	0.00	0.00
N-Value	= .013	.000	.000	.000
Orif. Coeff.	= 0.60	0.00	0.00	0.00
Multi-Stage	= n/a	No	No	No

### Weir Structures

	[A]	[B]	[C]	[D]
Crest Len (ft)	= 0.00	0.00	0.00	0.00
Crest El. (ft)	= 0.00	0.00	0.00	0.00
Weir Coeff.	= 0.00	0.00	0.00	0.00
Weir Type	= ---	---	---	---
Multi-Stage	= No	No	No	No

Exfiltration = 0.000 in/hr (Contour) Tailwater Elev. = 0.00 ft

Note: Culvert/Orifice outflows have been analyzed under inlet and outlet control.



# Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

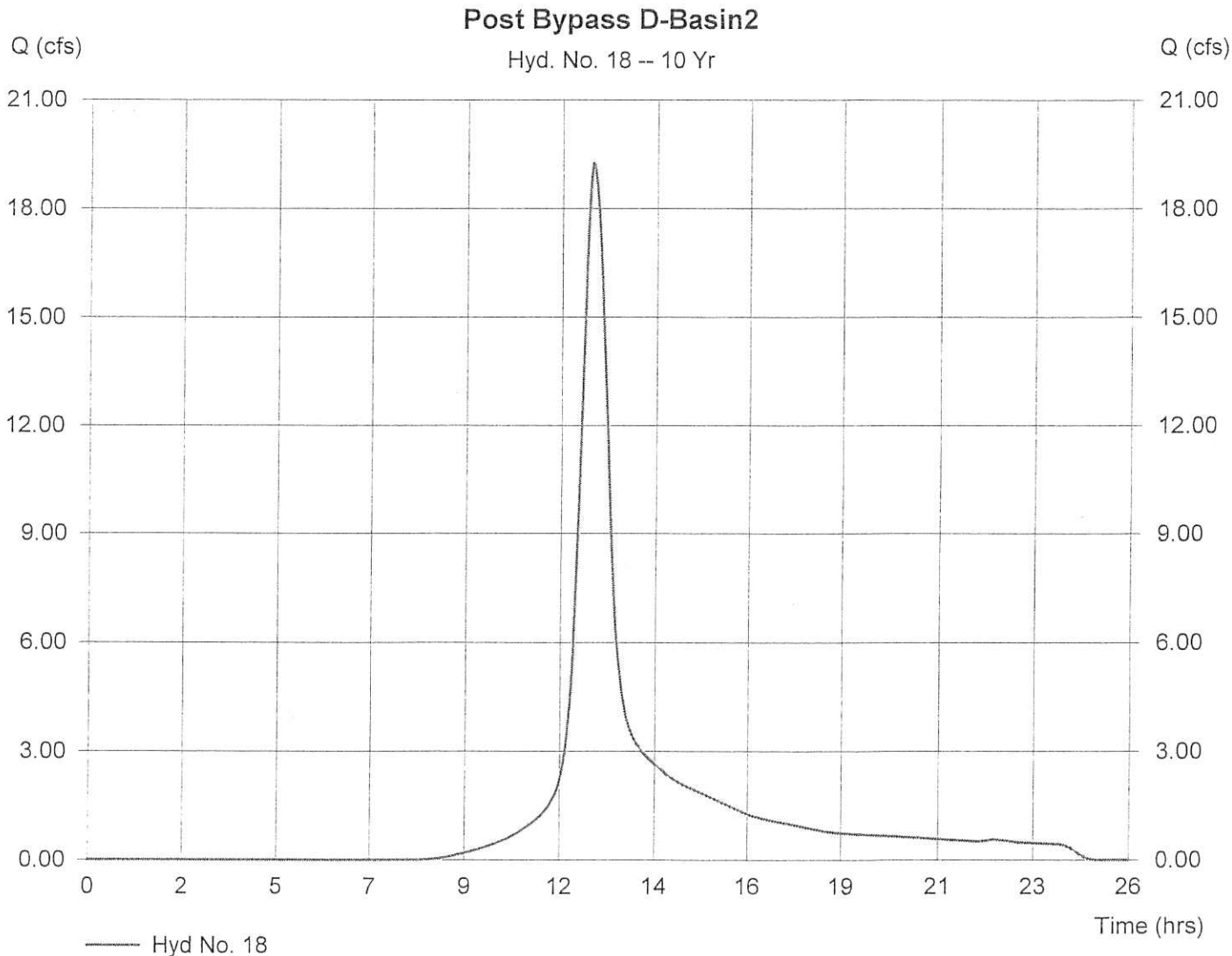
Friday, Jun 12 2009, 10:0 AM

## Hyd. No. 18

Post Bypass D-Basin2

Hydrograph type	= SCS Runoff	Peak discharge	= 19.25 cfs
Storm frequency	= 10 yrs	Time interval	= 2 min
Drainage area	= 10.380 ac	Curve number	= 76
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= USER	Time of conc. (Tc)	= 34.62 min
Total precip.	= 5.50 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484

Hydrograph Volume = 110,002 cuft



# Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Friday, Jun 12 2009, 10:0 AM

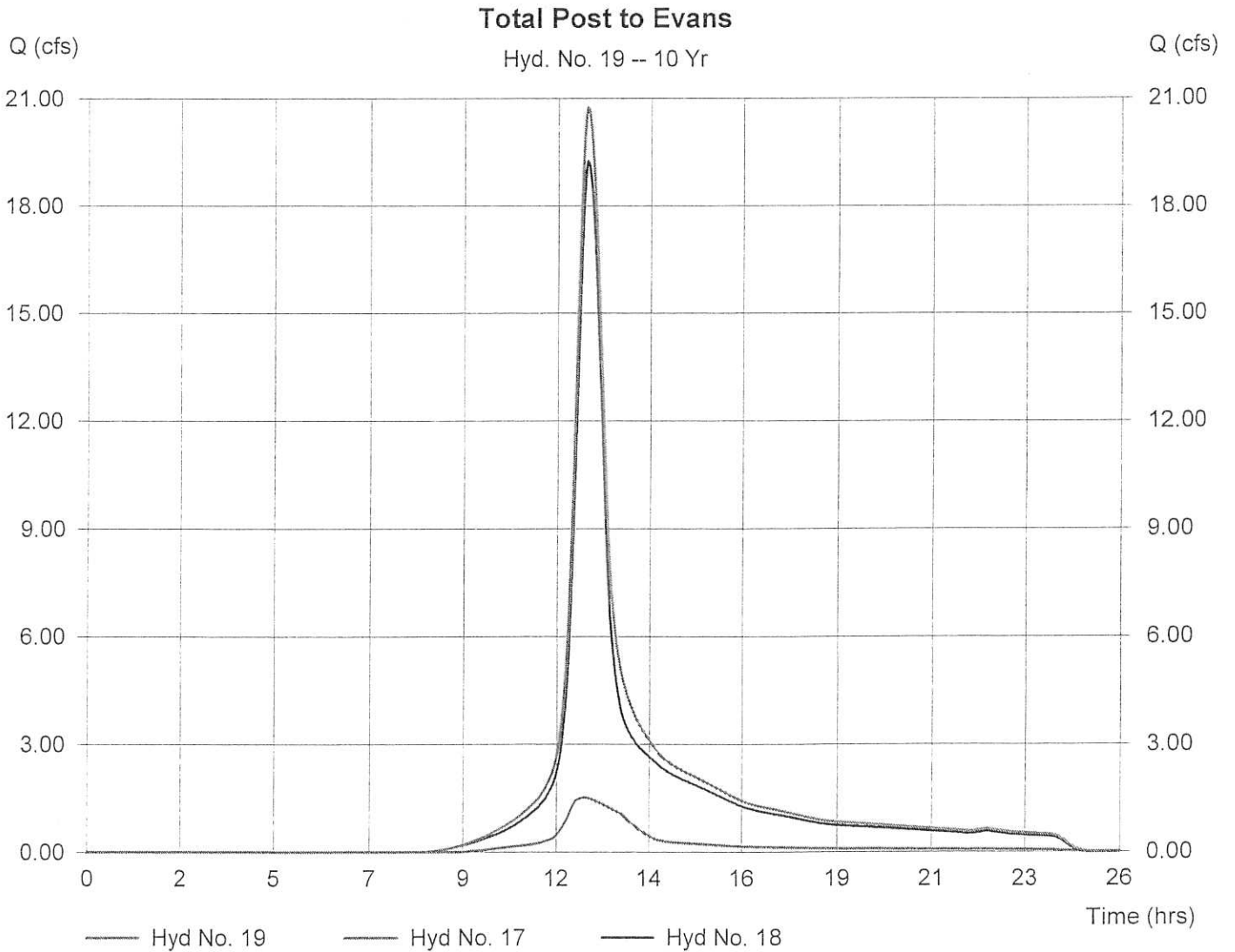
## Hyd. No. 19

Total Post to Evans

Hydrograph type = Combine  
Storm frequency = 10 yrs  
Inflow hyds. = 17, 18

Peak discharge = 20.76 cfs  
Time interval = 2 min

Hydrograph Volume = 124,734 cuft



# Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Friday, Jun 12 2009, 10:0 AM

## Hyd. No. 20

Area P33-Post to Souza

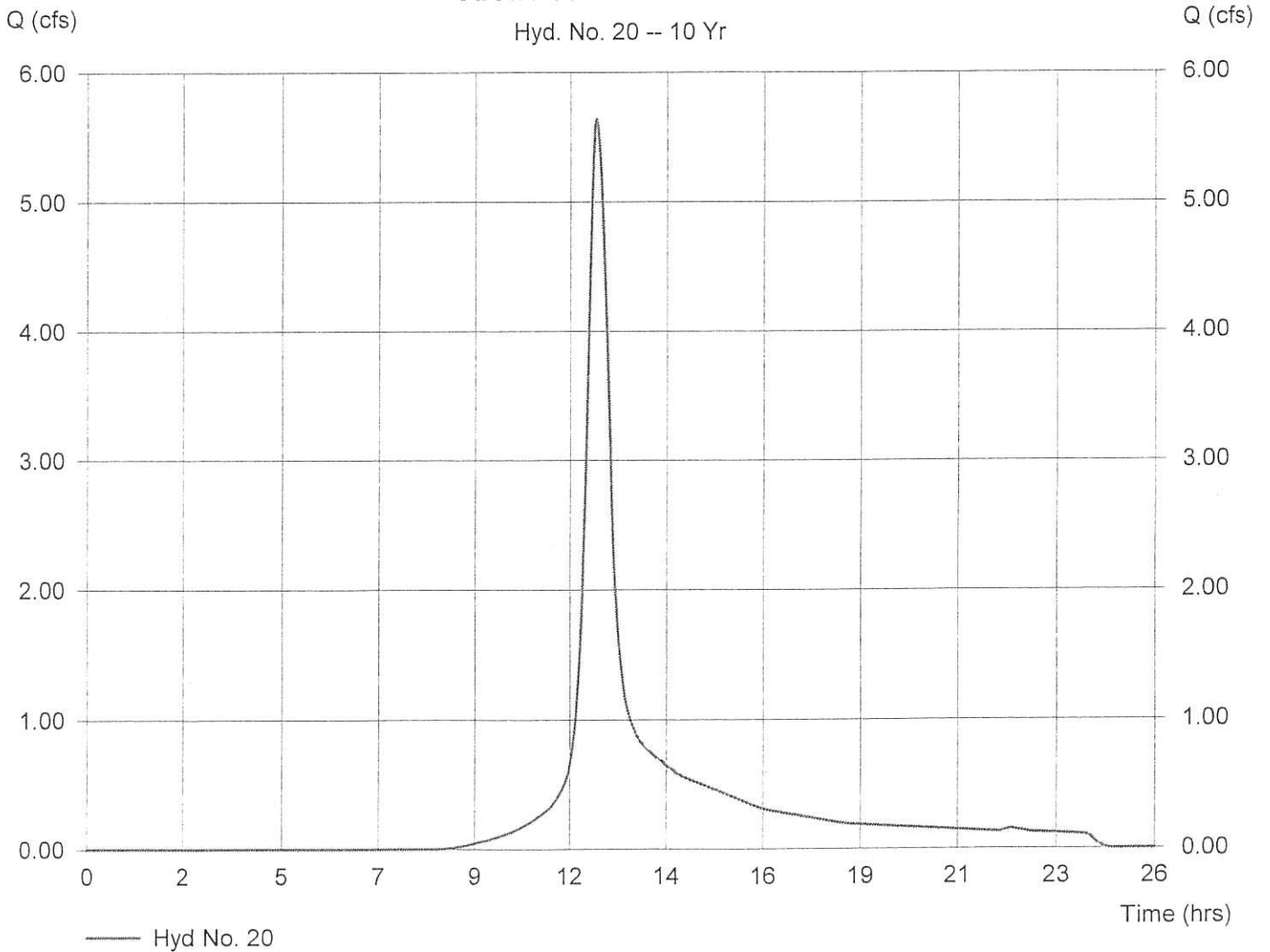
Hydrograph type = SCS Runoff  
Storm frequency = 10 yrs  
Drainage area = 2.720 ac  
Basin Slope = 0.0 %  
Tc method = USER  
Total precip. = 5.50 in  
Storm duration = 24 hrs

Peak discharge = 5.641 cfs  
Time interval = 2 min  
Curve number = 75  
Hydraulic length = 0 ft  
Time of conc. (Tc) = 24.30 min  
Distribution = Type III  
Shape factor = 484

Hydrograph Volume = 27,803 cuft

### Area P33-Post to Souza

Hyd. No. 20 -- 10 Yr





# Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Friday, Jun 12 2009, 10:0 AM

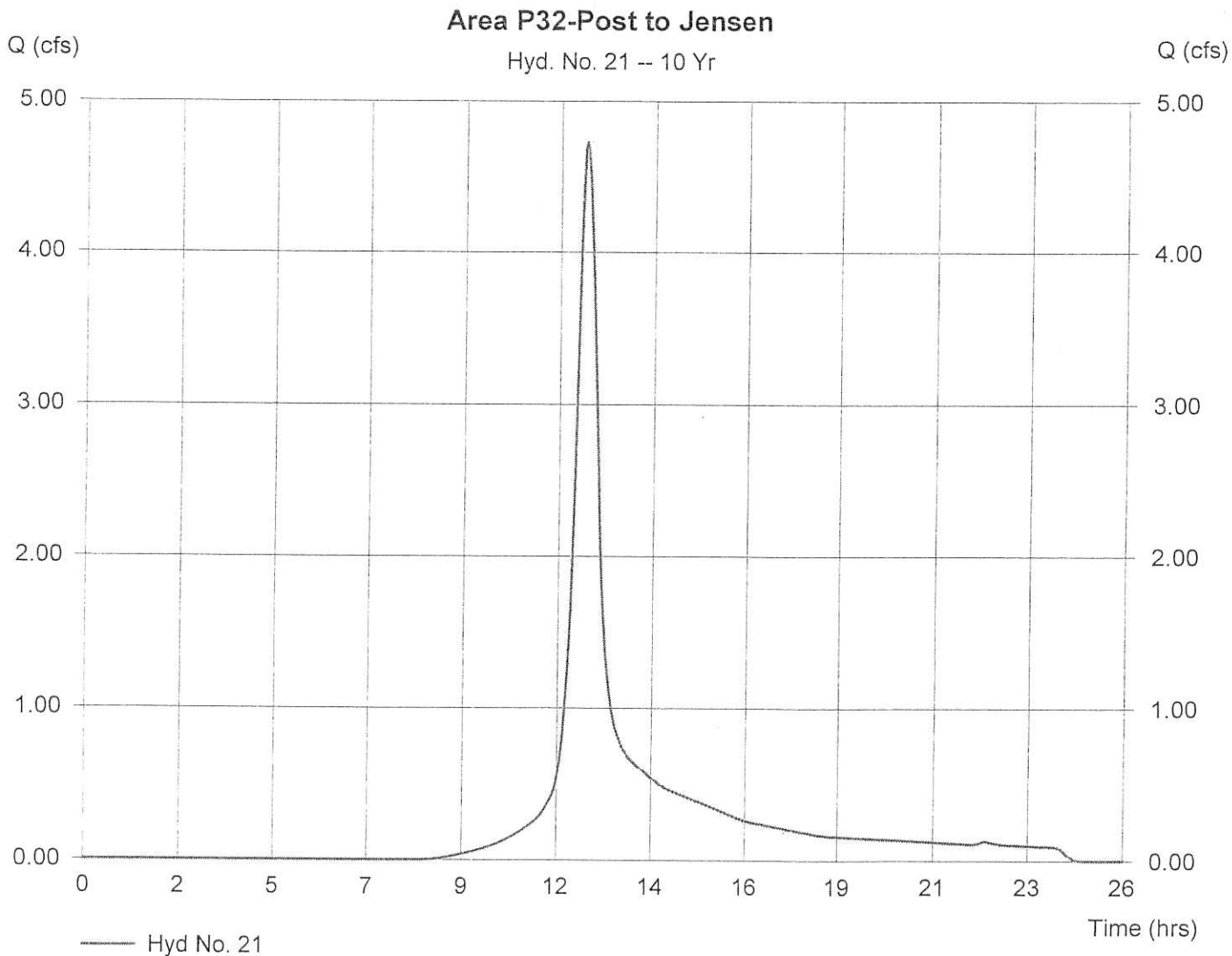
## Hyd. No. 21

Area P32-Post to Jensen

Hydrograph type = SCS Runoff  
 Storm frequency = 10 yrs  
 Drainage area = 2.280 ac  
 Basin Slope = 0.0 %  
 Tc method = USER  
 Total precip. = 5.50 in  
 Storm duration = 24 hrs

Peak discharge = 4.728 cfs  
 Time interval = 2 min  
 Curve number = 75  
 Hydraulic length = 0 ft  
 Time of conc. (Tc) = 23.76 min  
 Distribution = Type III  
 Shape factor = 484

Hydrograph Volume = 23,305 cuft



# Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Friday, Jun 12 2009, 10:0 AM

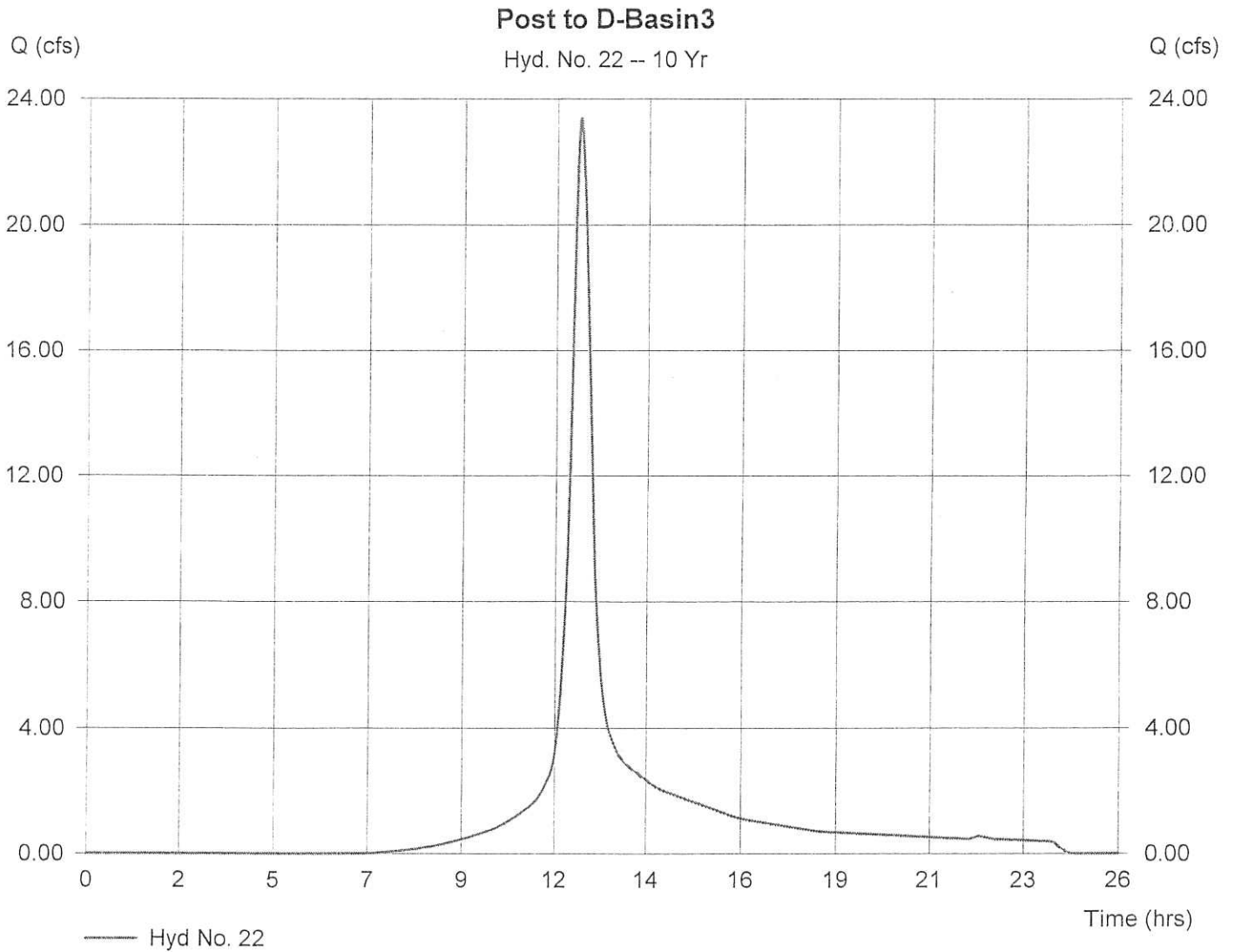
## Hyd. No. 22

Post to D-Basin3

Hydrograph type = SCS Runoff  
 Storm frequency = 10 yrs  
 Drainage area = 8.750 ac  
 Basin Slope = 0.0 %  
 Tc method = USER  
 Total precip. = 5.50 in  
 Storm duration = 24 hrs

Peak discharge = 23.39 cfs  
 Time interval = 2 min  
 Curve number = 81  
 Hydraulic length = 0 ft  
 Time of conc. (Tc) = 20.82 min  
 Distribution = Type III  
 Shape factor = 484

Hydrograph Volume = 110,926 cuft



# Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Friday, Jun 12 2009, 10:0 AM

## Hyd. No. 23

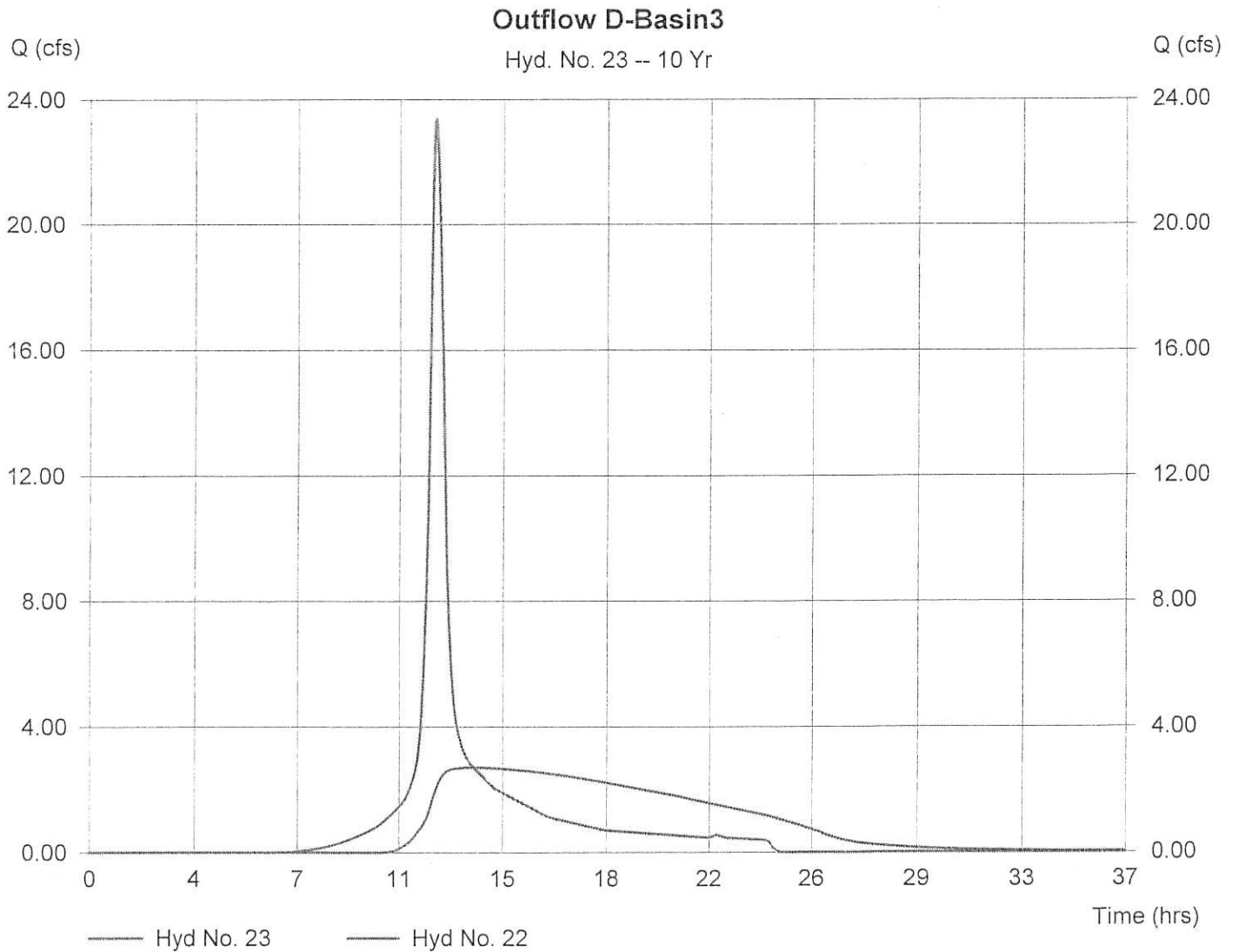
Outflow D-Basin3

Hydrograph type = Reservoir  
 Storm frequency = 10 yrs  
 Inflow hyd. No. = 22  
 Reservoir name = D-Basin3

Peak discharge = 2.702 cfs  
 Time interval = 2 min  
 Max. Elevation = 339.42 ft  
 Max. Storage = 59,501 cuft

Storage Indication method used.

Hydrograph Volume = 106,845 cuft



# Pond Report

Hydraflow Hydrographs by Intelisolve

Friday, Jun 12 2009, 10:0 AM

## Pond No. 3 - D-Basin3

### Pond Data

Pond storage is based on known contour areas. Average end area method used.

### Stage / Storage Table

Stage (ft)	Elevation (ft)	Contour area (sqft)	Incr. Storage (cuft)	Total storage (cuft)
0.00	336.00	5,355	0	0
0.50	336.50	10,675	4,008	4,008
1.00	337.00	15,995	6,668	10,675
2.00	338.00	20,015	18,005	28,680
3.00	339.00	22,085	21,050	49,730
4.00	340.00	24,700	23,393	73,123
5.00	341.00	28,345	26,523	99,645

### Culvert / Orifice Structures

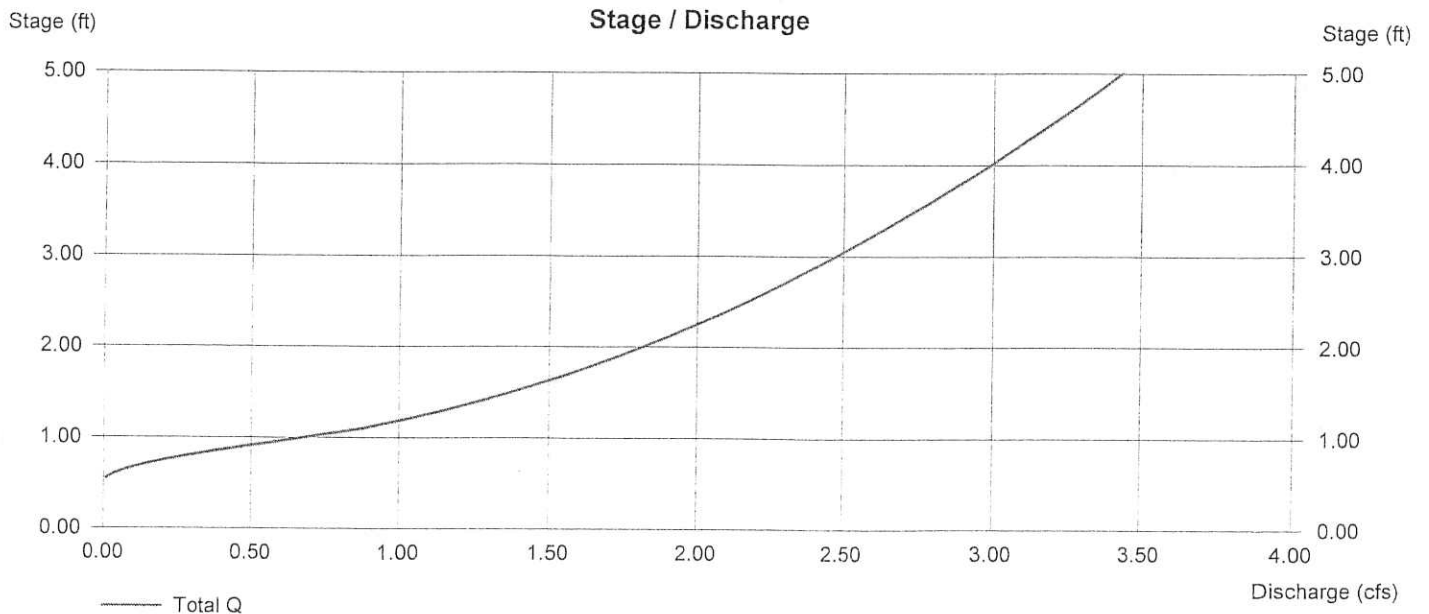
	[A]	[B]	[C]	[D]
Rise (in)	= 8.00	0.00	0.00	0.00
Span (in)	= 8.00	0.00	0.00	0.00
No. Barrels	= 1	0	0	0
Invert El. (ft)	= 336.50	0.00	0.00	0.00
Length (ft)	= 0.00	0.00	0.00	0.00
Slope (%)	= 0.00	0.00	0.00	0.00
N-Value	= .013	.000	.000	.000
Orif. Coeff.	= 0.60	0.00	0.00	0.00
Multi-Stage	= n/a	No	No	No

### Weir Structures

	[A]	[B]	[C]	[D]
Crest Len (ft)	= 0.00	0.00	0.00	0.00
Crest El. (ft)	= 0.00	0.00	0.00	0.00
Weir Coeff.	= 0.00	0.00	0.00	0.00
Weir Type	= ---	---	---	---
Multi-Stage	= No	No	No	No

Exfiltration = 0.000 in/hr (Contour) Tailwater Elev. = 0.00 ft

Note: Culvert/Orifice outflows have been analyzed under inlet and outlet control.



# Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Friday, Jun 12 2009, 10:0 AM

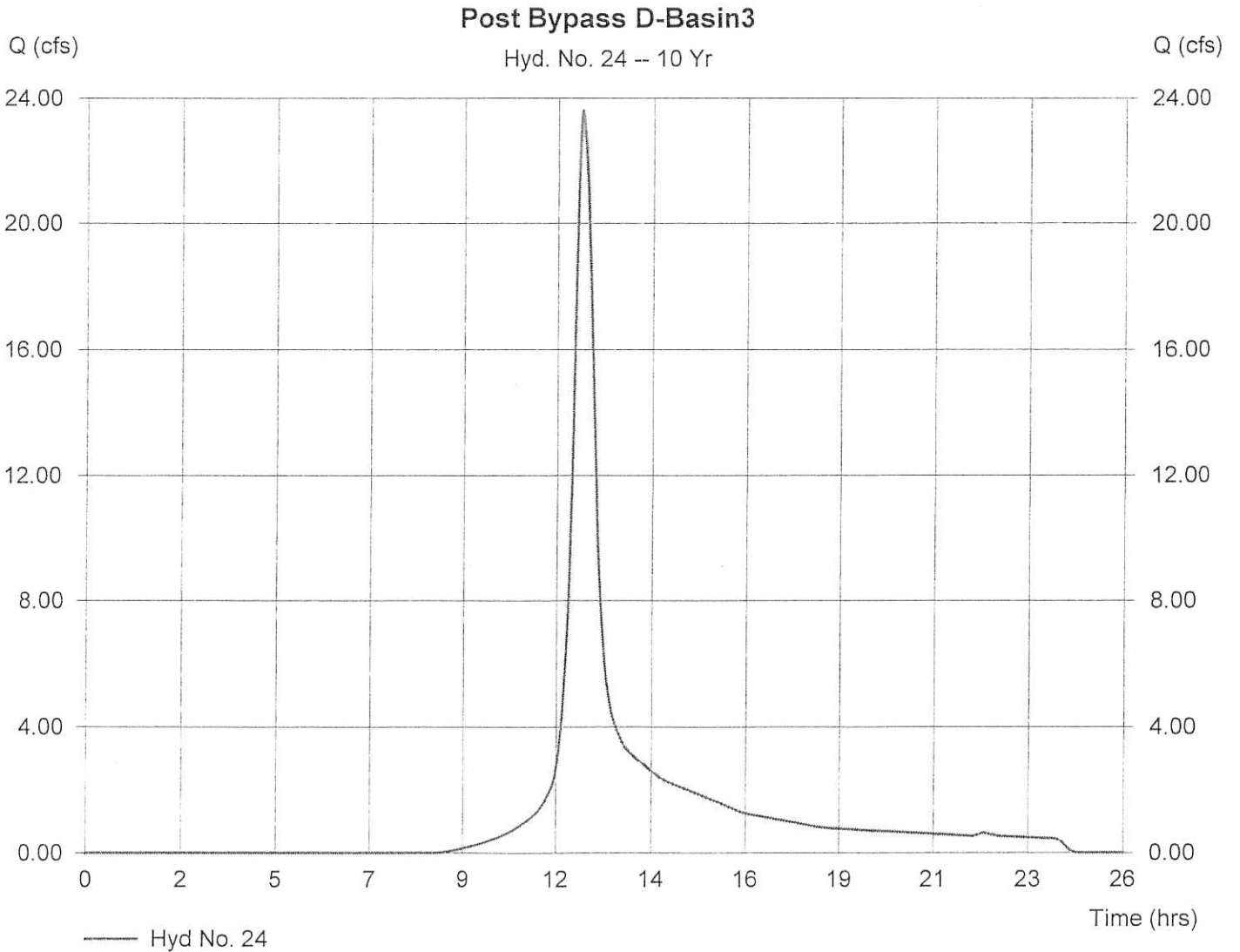
## Hyd. No. 24

Post Bypass D-Basin3

Hydrograph type = SCS Runoff  
 Storm frequency = 10 yrs  
 Drainage area = 10.940 ac  
 Basin Slope = 0.0 %  
 Tc method = USER  
 Total precip. = 5.50 in  
 Storm duration = 24 hrs

Peak discharge = 23.60 cfs  
 Time interval = 2 min  
 Curve number = 74  
 Hydraulic length = 0 ft  
 Time of conc. (Tc) = 20.90 min  
 Distribution = Type III  
 Shape factor = 484

Hydrograph Volume = 111,934 cuft



# Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Friday, Jun 12 2009, 10:0 AM

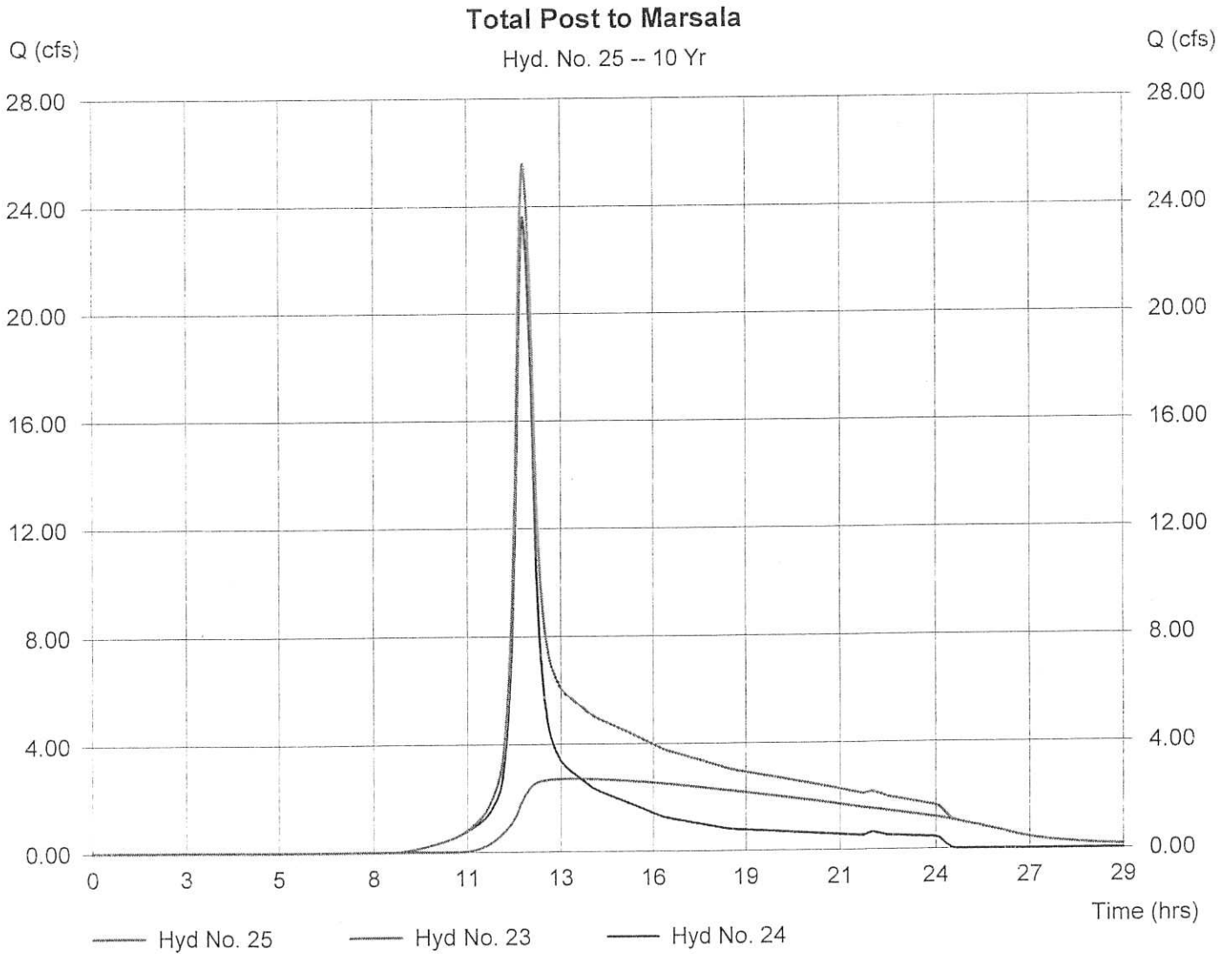
## Hyd. No. 25

Total Post to Marsala

Hydrograph type = Combine  
 Storm frequency = 10 yrs  
 Inflow hyds. = 23, 24

Peak discharge = 25.58 cfs  
 Time interval = 2 min

Hydrograph Volume = 218,779 cuft



# Hydrograph Summary Report

Id. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to peak (min)	Volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Maximum storage (cuft)	Hydrograph description	
1	SCS Runoff	18.13	2	738	89,268	---	----	-----	Area E1-Pre to Gay Hill Rd	
2	SCS Runoff	4.926	6	738	25,683	---	----	-----	Area E2-Pre to Videll	
3	SCS Runoff	2.102	2	736	9,974	---	----	-----	Area E3- Pre to Champion	
4	SCS Runoff	1.697	2	730	6,939	---	----	-----	Area E4-Pre to Fernandez	
5	SCS Runoff	22.46	2	750	141,843	---	----	-----	Area E8-Pre to Evans	
6	SCS Runoff	7.011	2	738	34,623	---	----	-----	Area E6-Pre to Souza	
7	SCS Runoff	4.976	2	738	24,571	---	----	-----	Area E7-Pre to Jensen	
8	SCS Runoff	29.67	2	744	169,855	---	----	-----	Area E8-Pre to Marsala	
9	SCS Runoff	5.210	2	732	23,073	---	----	-----	Post to D-Basin1	
10	Reservoir	2.090	2	756	22,418	9	317.38	7,233	Outflow D-Basin1	
11	SCS Runoff	14.58	2	738	71,749	---	----	-----	Post Bypass D-Basin1	
12	Combine	16.39	2	738	94,167	10, 11	----	-----	Total Post to Gay Hill Rd	
13	SCS Runoff	4.169	2	736	19,721	---	----	-----	Area E2-Post to Videll	
14	SCS Runoff	2.098	2	736	9,923	---	----	-----	Area P36-Post to Champion	
15	SCS Runoff	1.679	2	730	6,835	---	----	-----	Area P35-Post to Fernandez	
16	SCS Runoff	5.237	2	724	15,791	---	----	-----	Post to D-Basin2	
17	Reservoir	1.547	2	744	15,507	16	335.43	4,294	Outflow D-Basin2	
18	SCS Runoff	20.37	2	744	116,327	---	----	-----	Post Bypass D-Basin2	
19	Combine	21.92	2	744	131,834	17, 18	----	-----	Total Post to Evans	
20	SCS Runoff	5.975	2	738	29,430	---	----	-----	Area P33-Post to Souza	
21	SCS Runoff	5.008	2	738	24,670	---	----	-----	Area P32-Post to Jensen	
22	SCS Runoff	24.59	2	736	116,756	---	----	-----	Post to D-Basin3	
23	Reservoir	2.779	2	822	112,675	22	339.57	63,003	Outflow D-Basin3	
24	SCS Runoff	25.04	2	736	118,607	---	----	-----	Post Bypass D-Basin3	
25	Combine	27.07	2	736	231,282	23, 24	----	-----	Total Post to Marsala	
9R Burlake Rd LLC.gpw					Return Period: 25 Year			Friday, Jun 12 2009, 10:00 AM		

# Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Friday, Jun 12 2009, 10:0 AM

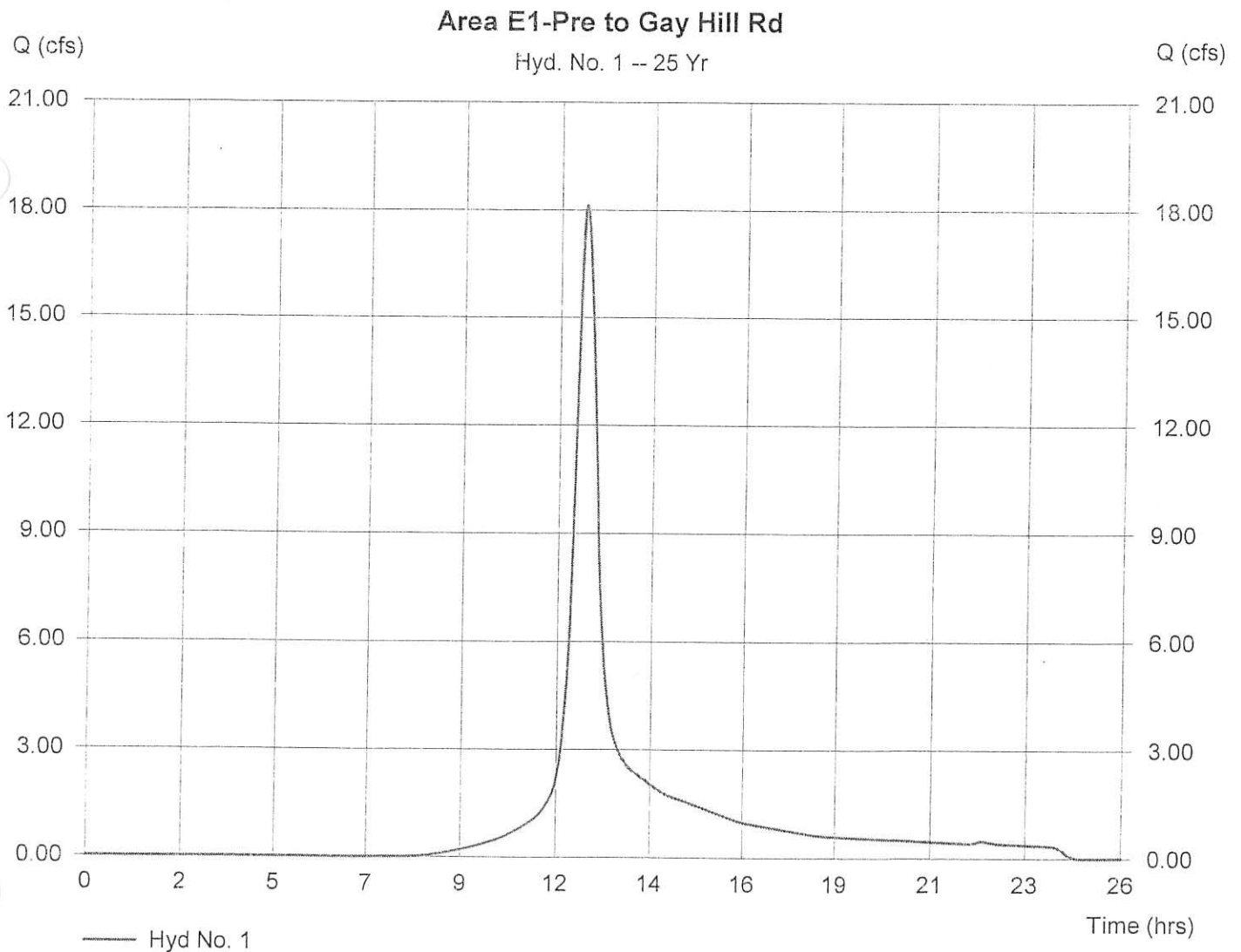
## Hyd. No. 1

Area E1-Pre to Gay Hill Rd

Hydrograph type = SCS Runoff  
Storm frequency = 25 yrs  
Drainage area = 8.000 ac  
Basin Slope = 0.0 %  
Tc method = USER  
Total precip. = 5.70 in  
Storm duration = 24 hrs

Peak discharge = 18.13 cfs  
Time interval = 2 min  
Curve number = 76  
Hydraulic length = 0 ft  
Time of conc. (Tc) = 25.20 min  
Distribution = Type III  
Shape factor = 484

Hydrograph Volume = 89,268 cuft





# Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Friday, Jun 12 2009, 10:0 AM

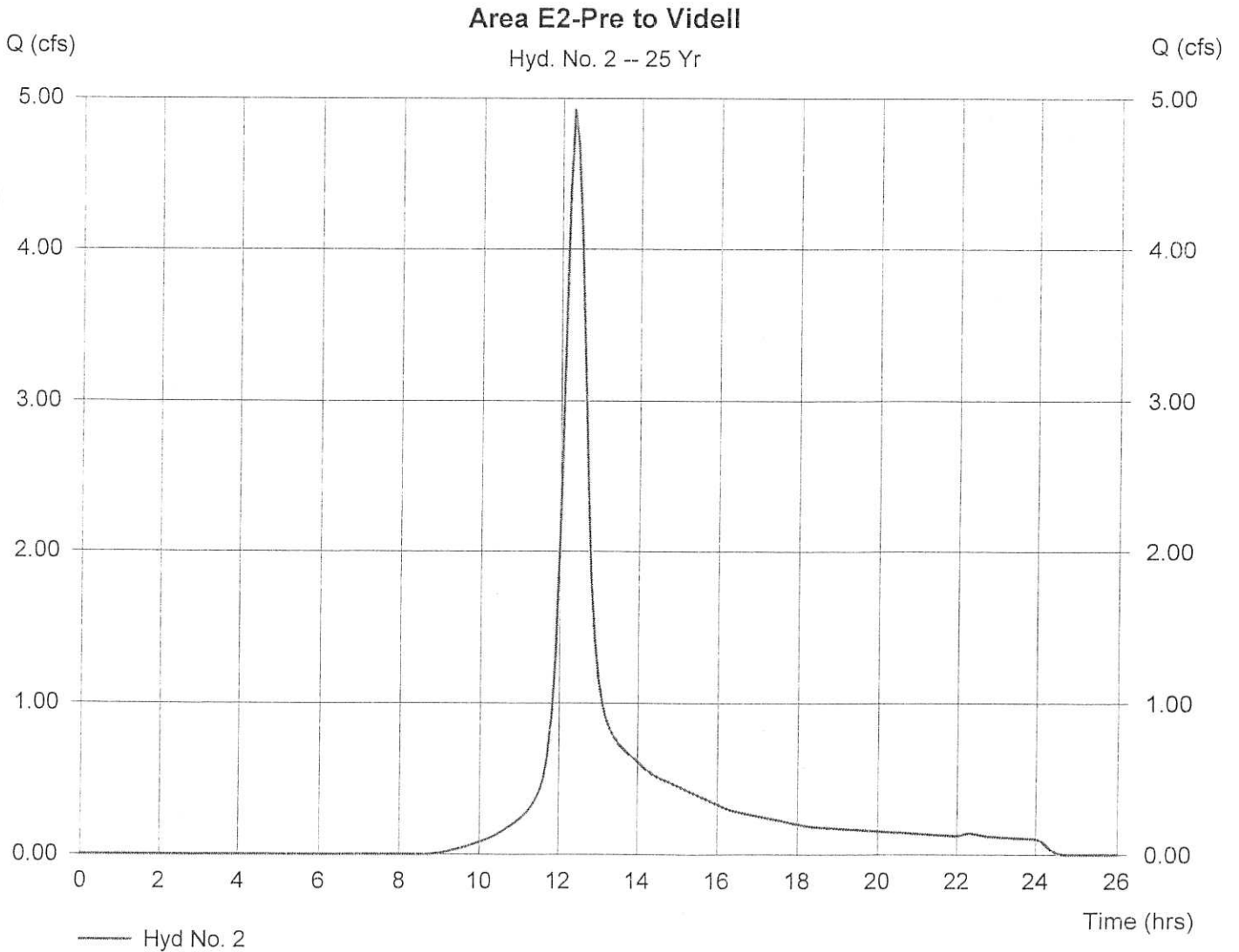
## Hyd. No. 2

Area E2-Pre to Videll

Hydrograph type = SCS Runoff  
 Storm frequency = 25 yrs  
 Drainage area = 2.490 ac  
 Basin Slope = 0.0 %  
 Tc method = USER  
 Total precip. = 5.70 in  
 Storm duration = 24 hrs

Peak discharge = 4.926 cfs  
 Time interval = 6 min  
 Curve number = 73  
 Hydraulic length = 0 ft  
 Time of conc. (Tc) = 22.38 min  
 Distribution = Type III  
 Shape factor = 484

Hydrograph Volume = 25,683 cuft



# Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Friday, Jun 12 2009, 10:0 AM

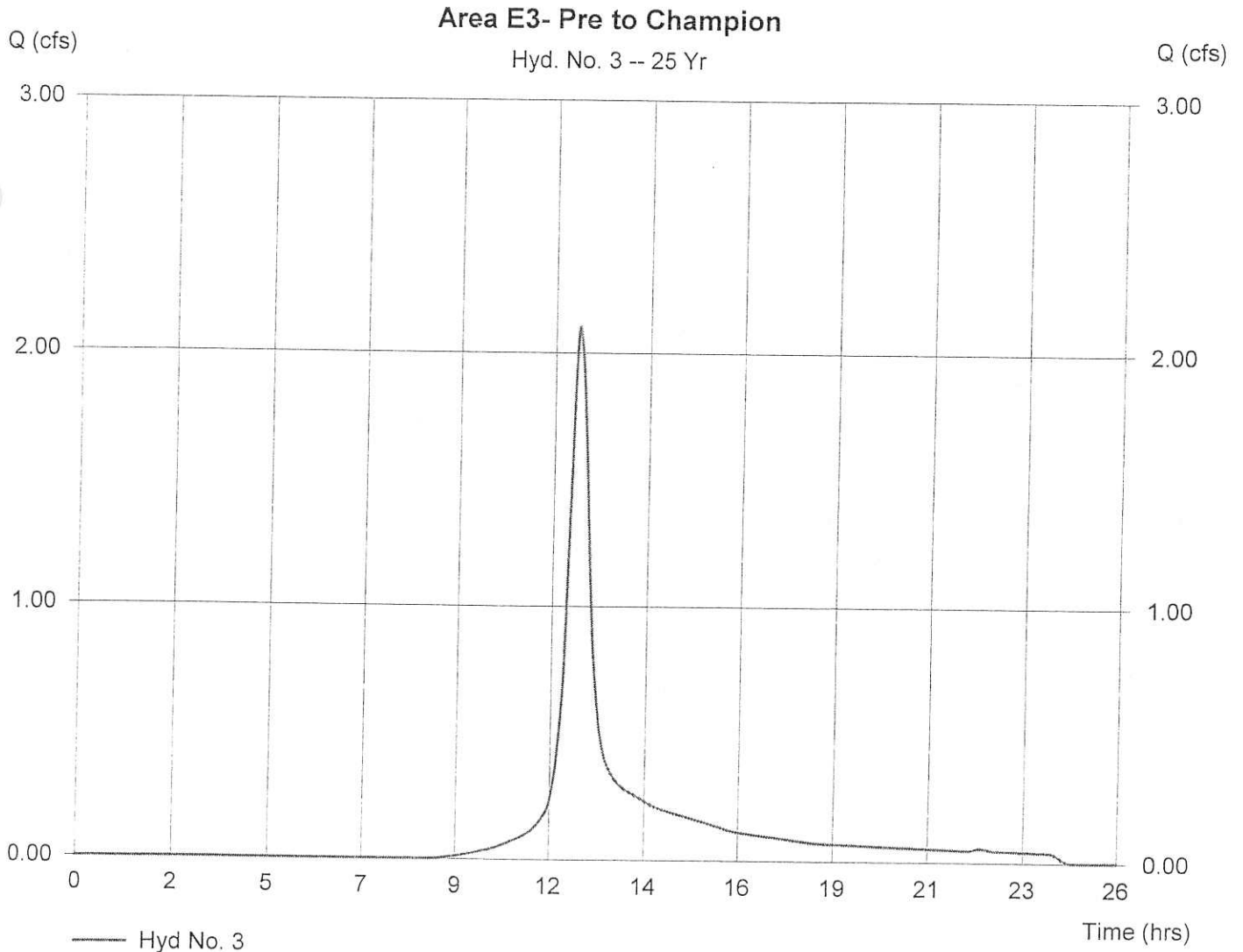
## Hyd. No. 3

Area E3- Pre to Champion

Hydrograph type = SCS Runoff  
Storm frequency = 25 yrs  
Drainage area = 0.950 ac  
Basin Slope = 0.0 %  
Tc method = USER  
Total precip. = 5.70 in  
Storm duration = 24 hrs

Peak discharge = 2.102 cfs  
Time interval = 2 min  
Curve number = 73  
Hydraulic length = 0 ft  
Time of conc. (Tc) = 22.60 min  
Distribution = Type III  
Shape factor = 484

Hydrograph Volume = 9,974 cuft



# Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Friday, Jun 12 2009, 10:0 AM

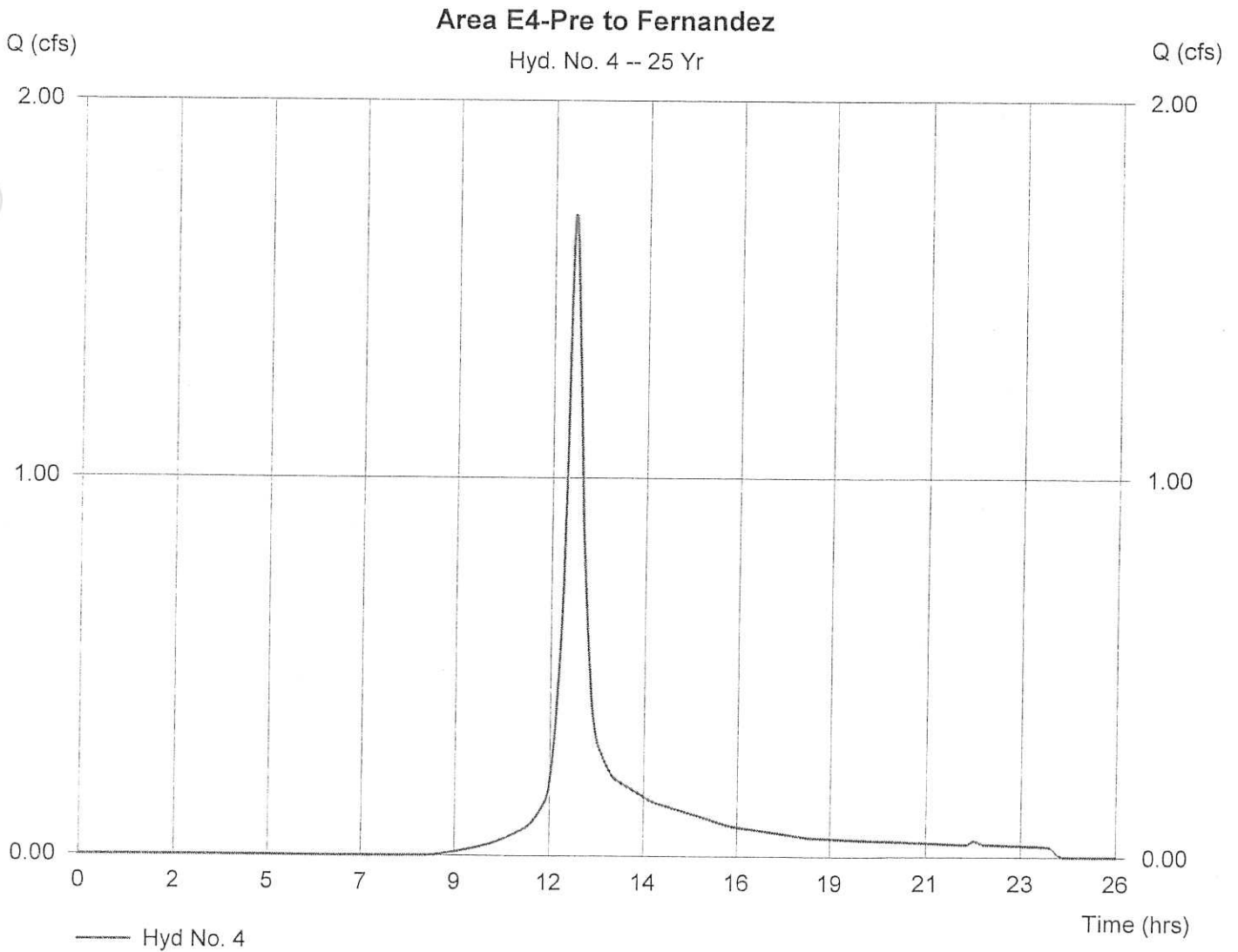
## Hyd. No. 4

Area E4-Pre to Fernandez

Hydrograph type = SCS Runoff  
 Storm frequency = 25 yrs  
 Drainage area = 0.690 ac  
 Basin Slope = 0.0 %  
 Tc method = USER  
 Total precip. = 5.70 in  
 Storm duration = 24 hrs

Peak discharge = 1.697 cfs  
 Time interval = 2 min  
 Curve number = 73  
 Hydraulic length = 0 ft  
 Time of conc. (Tc) = 14.76 min  
 Distribution = Type III  
 Shape factor = 484

Hydrograph Volume = 6,939 cuft



# Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Friday, Jun 12 2009, 10:0 AM

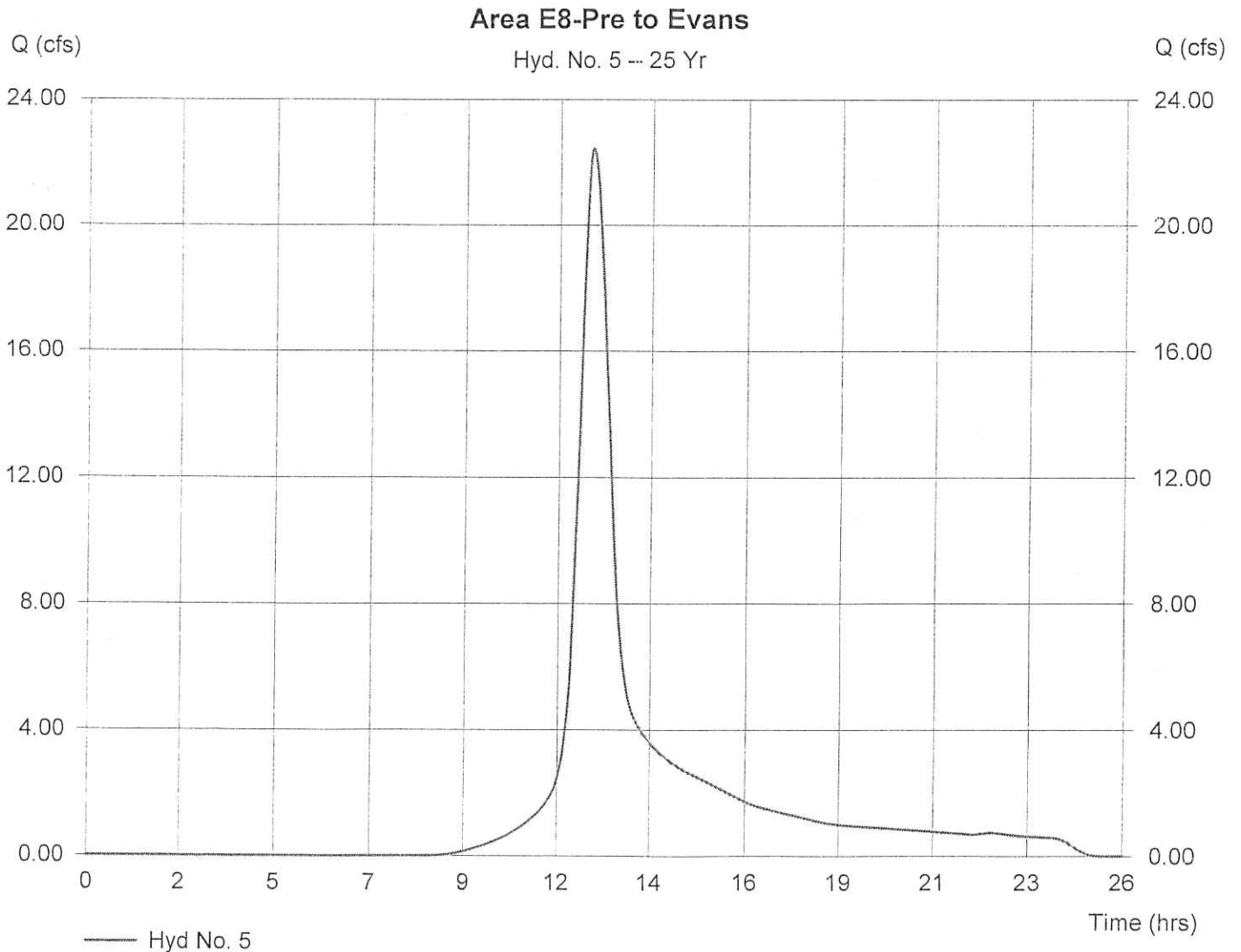
## Hyd. No. 5

Area E8-Pre to Evans

Hydrograph type = SCS Runoff  
 Storm frequency = 25 yrs  
 Drainage area = 13.190 ac  
 Basin Slope = 0.0 %  
 Tc method = USER  
 Total precip. = 5.70 in  
 Storm duration = 24 hrs

Peak discharge = 22.46 cfs  
 Time interval = 2 min  
 Curve number = 74  
 Hydraulic length = 0 ft  
 Time of conc. (Tc) = 40.80 min  
 Distribution = Type III  
 Shape factor = 484

Hydrograph Volume = 141,843 cuft



# Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Friday, Jun 12 2009, 10:0 AM

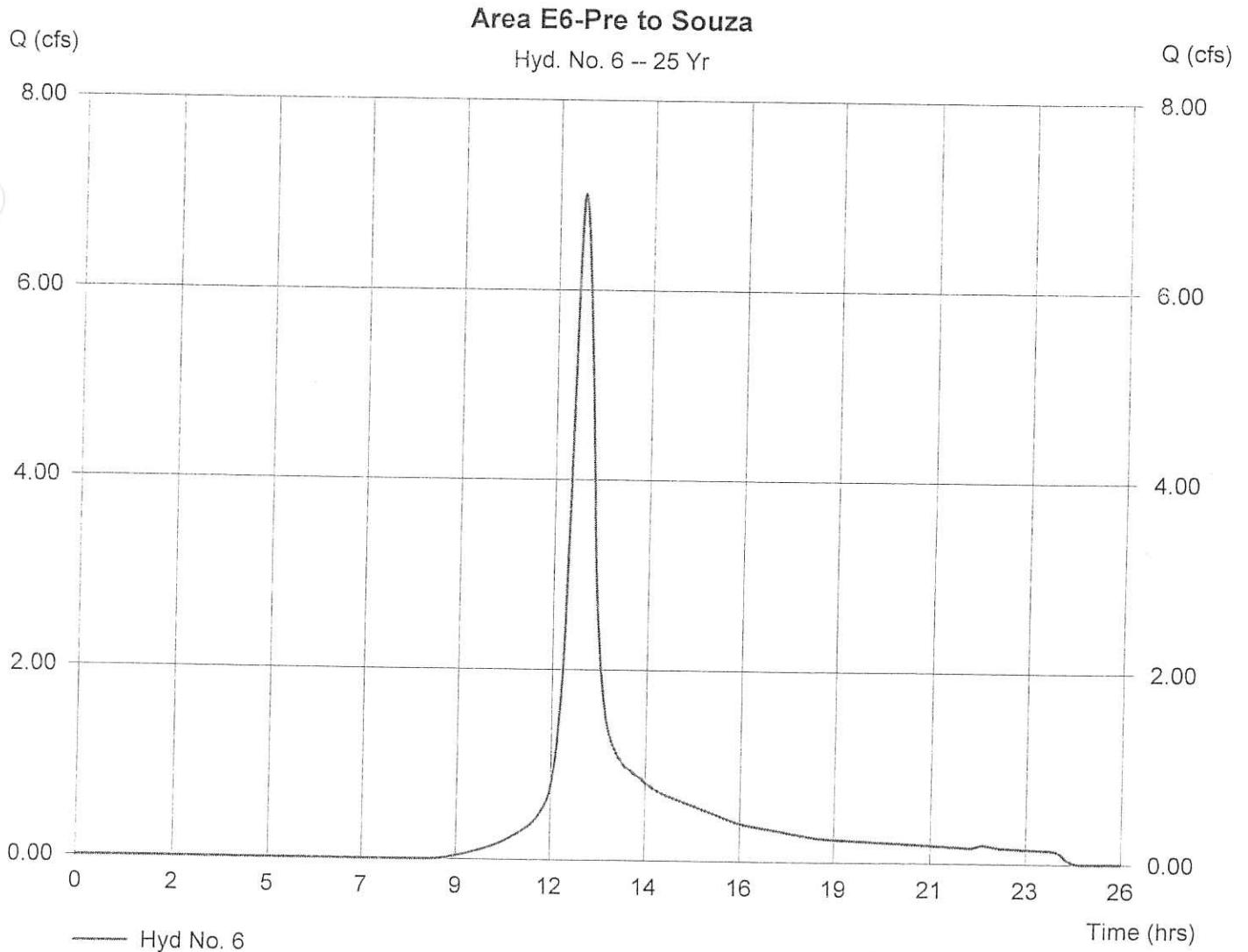
## Hyd. No. 6

Area E6-Pre to Souza

Hydrograph type = SCS Runoff  
Storm frequency = 25 yrs  
Drainage area = 3.410 ac  
Basin Slope = 0.0 %  
Tc method = USER  
Total precip. = 5.70 in  
Storm duration = 24 hrs

Peak discharge = 7.011 cfs  
Time interval = 2 min  
Curve number = 73  
Hydraulic length = 0 ft  
Time of conc. (Tc) = 24.30 min  
Distribution = Type III  
Shape factor = 484

Hydrograph Volume = 34,623 cuft



# Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Friday, Jun 12 2009, 10:0 AM

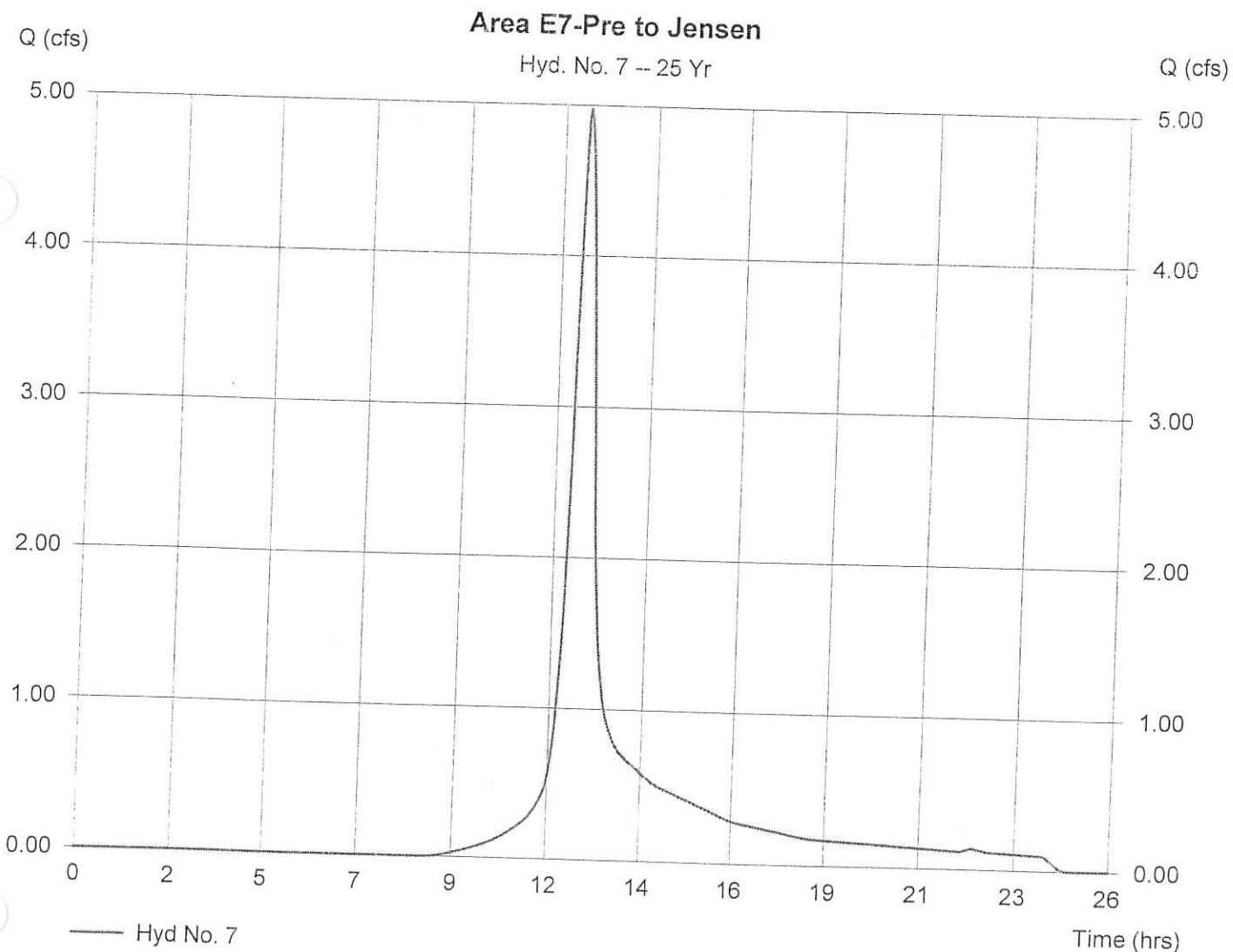
## Hyd. No. 7

Area E7-Pre to Jensen

Hydrograph type = SCS Runoff  
Storm frequency = 25 yrs  
Drainage area = 2.420 ac  
Basin Slope = 0.0 %  
Tc method = USER  
Total precip. = 5.70 in  
Storm duration = 24 hrs

Peak discharge = 4.976 cfs  
Time interval = 2 min  
Curve number = 73  
Hydraulic length = 0 ft  
Time of conc. (Tc) = 23.76 min  
Distribution = Type III  
Shape factor = 484

Hydrograph Volume = 24,571 cuft



# Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Friday, Jun 12 2009, 10:0 AM

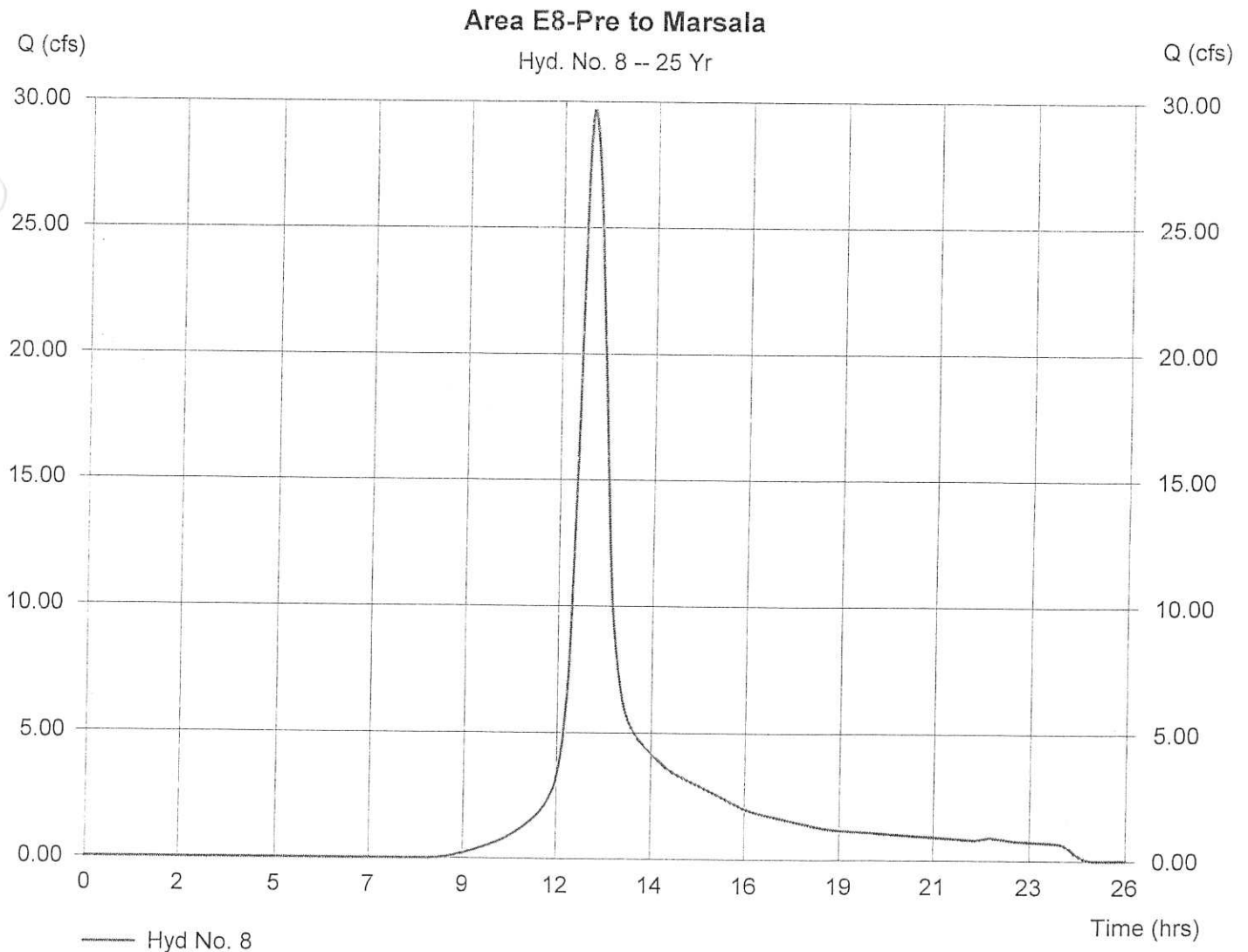
## Hyd. No. 8

Area E8-Pre to Marsala

Hydrograph type = SCS Runoff  
 Storm frequency = 25 yrs  
 Drainage area = 16.130 ac  
 Basin Slope = 0.0 %  
 Tc method = USER  
 Total precip. = 5.70 in  
 Storm duration = 24 hrs

Peak discharge = 29.67 cfs  
 Time interval = 2 min  
 Curve number = 74  
 Hydraulic length = 0 ft  
 Time of conc. (Tc) = 34.56 min  
 Distribution = Type III  
 Shape factor = 484

Hydrograph Volume = 169,855 cuft



# Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Friday, Jun 12 2009, 10:0 AM

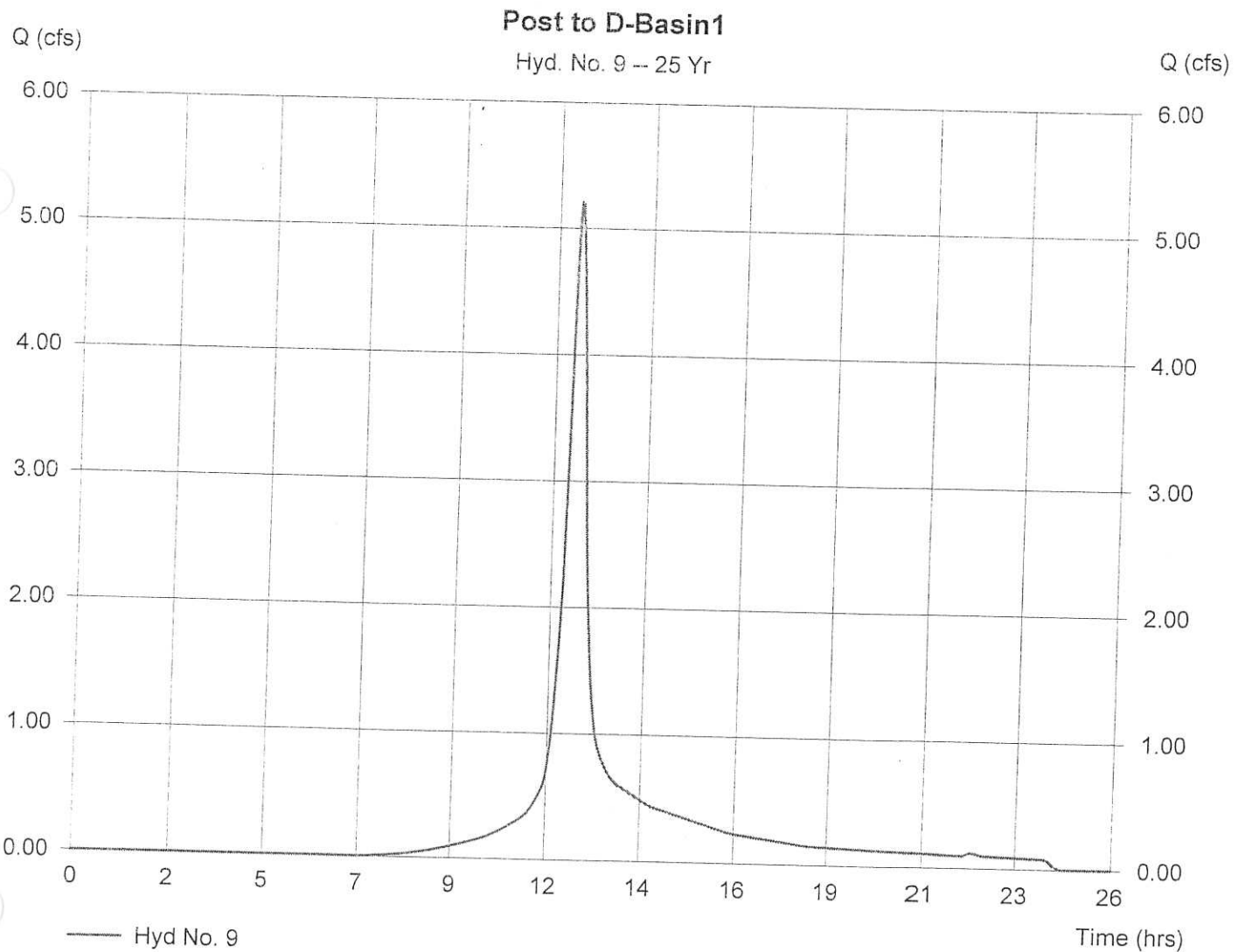
## Hyd. No. 9

Post to D-Basin1

Hydrograph type = SCS Runoff  
Storm frequency = 25 yrs  
Drainage area = 1.810 ac  
Basin Slope = 0.0 %  
Tc method = USER  
Total precip. = 5.70 in  
Storm duration = 24 hrs

Peak discharge = 5.210 cfs  
Time interval = 2 min  
Curve number = 80  
Hydraulic length = 0 ft  
Time of conc. (Tc) = 18.00 min  
Distribution = Type III  
Shape factor = 484

Hydrograph Volume = 23,073 cuft





# Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Friday, Jun 12 2009, 10:0 AM

## Hyd. No. 10

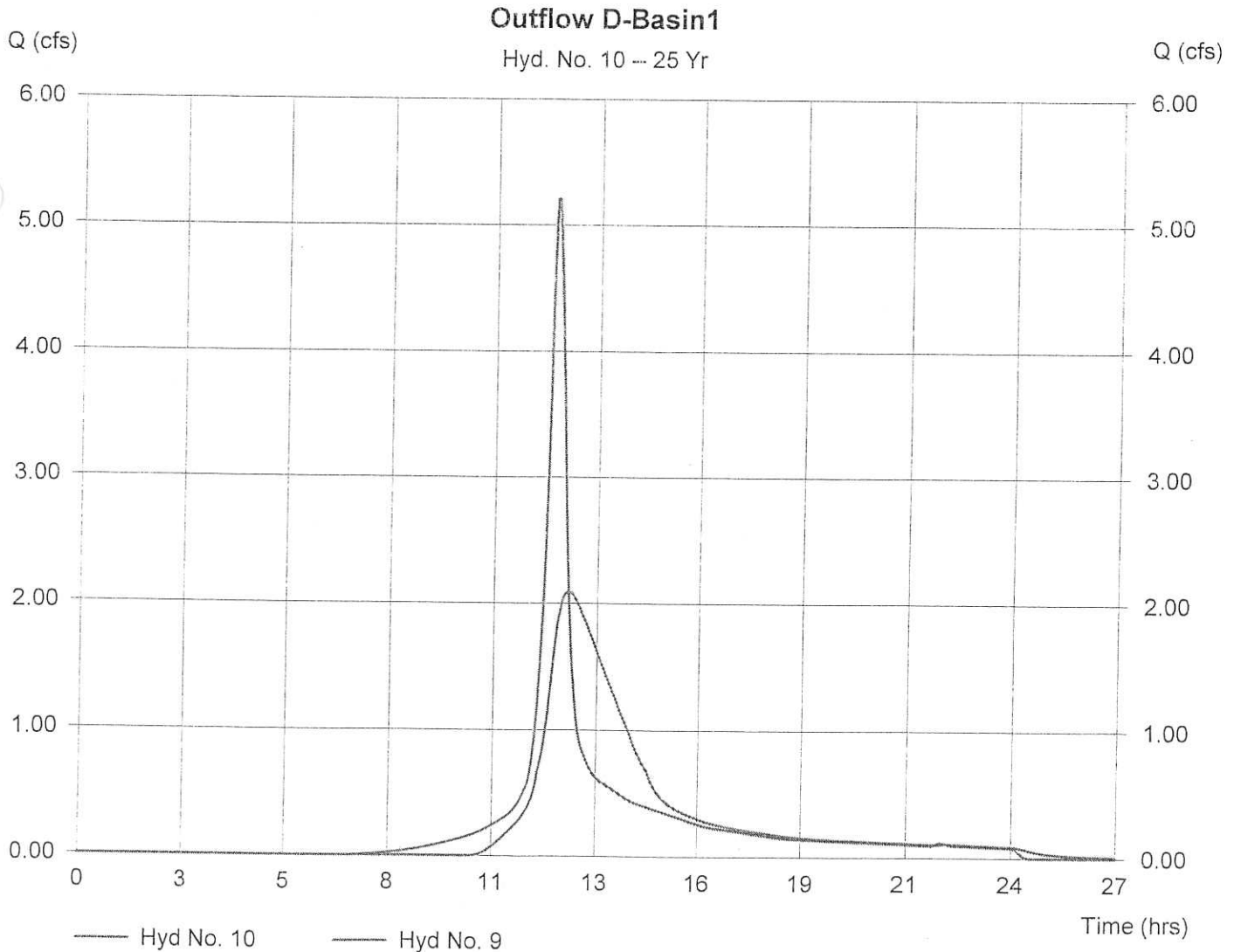
Outflow D-Basin1

Hydrograph type = Reservoir  
Storm frequency = 25 yrs  
Inflow hyd. No. = 9  
Reservoir name = D-Basin1

Peak discharge = 2.090 cfs  
Time interval = 2 min  
Max. Elevation = 317.38 ft  
Max. Storage = 7,233 cuft

Storage Indication method used.

Hydrograph Volume = 22,418 cuft



# Pond Report

Hydraflow Hydrographs by Intelisolve

Friday, Jun 12 2009, 10:0 AM

## Pond No. 1 - D-Basin1

### Pond Data

Pond storage is based on known contour areas. Average end area method used.

### Stage / Storage Table

Stage (ft)	Elevation (ft)	Contour area (sqft)	Incr. Storage (cuft)	Total storage (cuft)
0.00	315.00	725	0	0
0.50	315.50	1,843	642	642
1.00	316.00	2,960	1,201	1,843
3.00	318.00	4,850	7,810	9,653
3.70	318.70	5,630	3,668	13,321

### Culvert / Orifice Structures

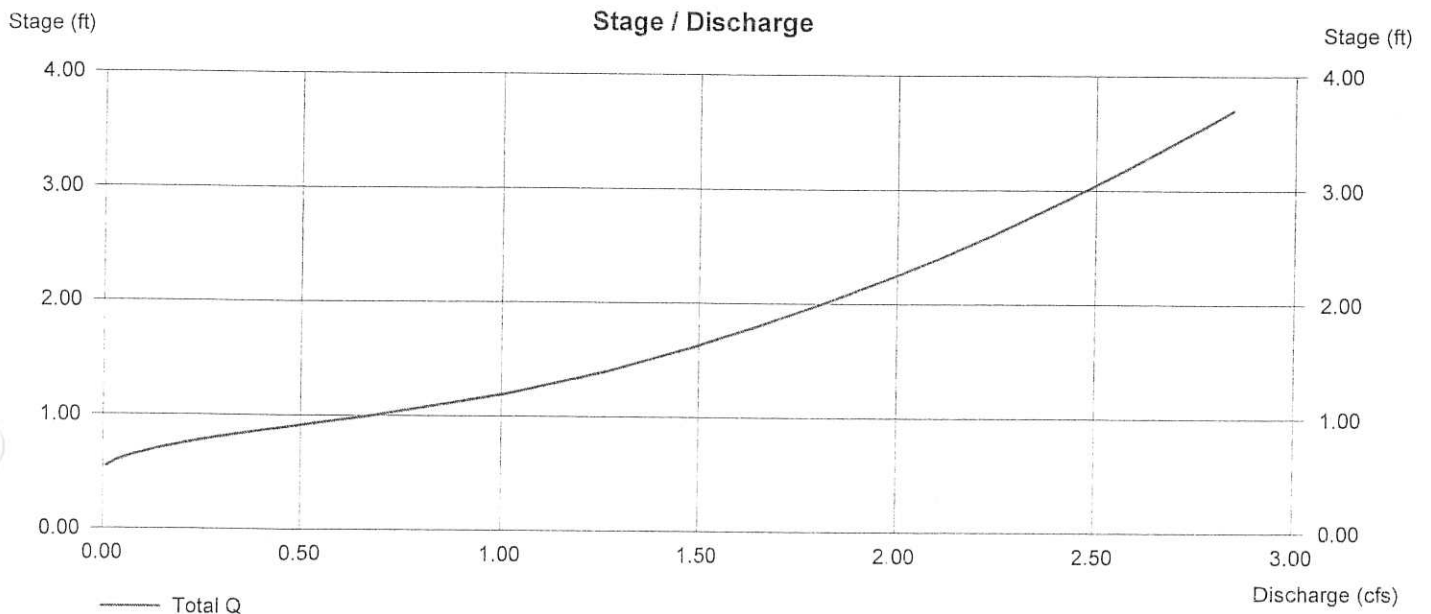
	[A]	[B]	[C]	[D]
Rise (in)	= 8.00	0.00	0.00	0.00
Span (in)	= 8.00	0.00	0.00	0.00
No. Barrels	= 1	0	0	0
Invert El. (ft)	= 315.50	0.00	0.00	0.00
Length (ft)	= 0.00	0.00	0.00	0.00
Slope (%)	= 0.00	0.00	0.00	0.00
N-Value	= .013	.000	.000	.000
Orif. Coeff.	= 0.60	0.00	0.00	0.00
Multi-Stage	= n/a	No	No	No

### Weir Structures

	[A]	[B]	[C]	[D]
Crest Len (ft)	= 0.00	0.00	0.00	0.00
Crest El. (ft)	= 0.00	0.00	0.00	0.00
Weir Coeff.	= 0.00	0.00	0.00	0.00
Weir Type	= ---	---	---	---
Multi-Stage	= No	No	No	No

Exfiltration = 0.000 in/hr (Contour) Tailwater Elev. = 0.00 ft

Note: Culvert/Orifice outflows have been analyzed under inlet and outlet control.



# Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Friday, Jun 12 2009, 10:0 AM

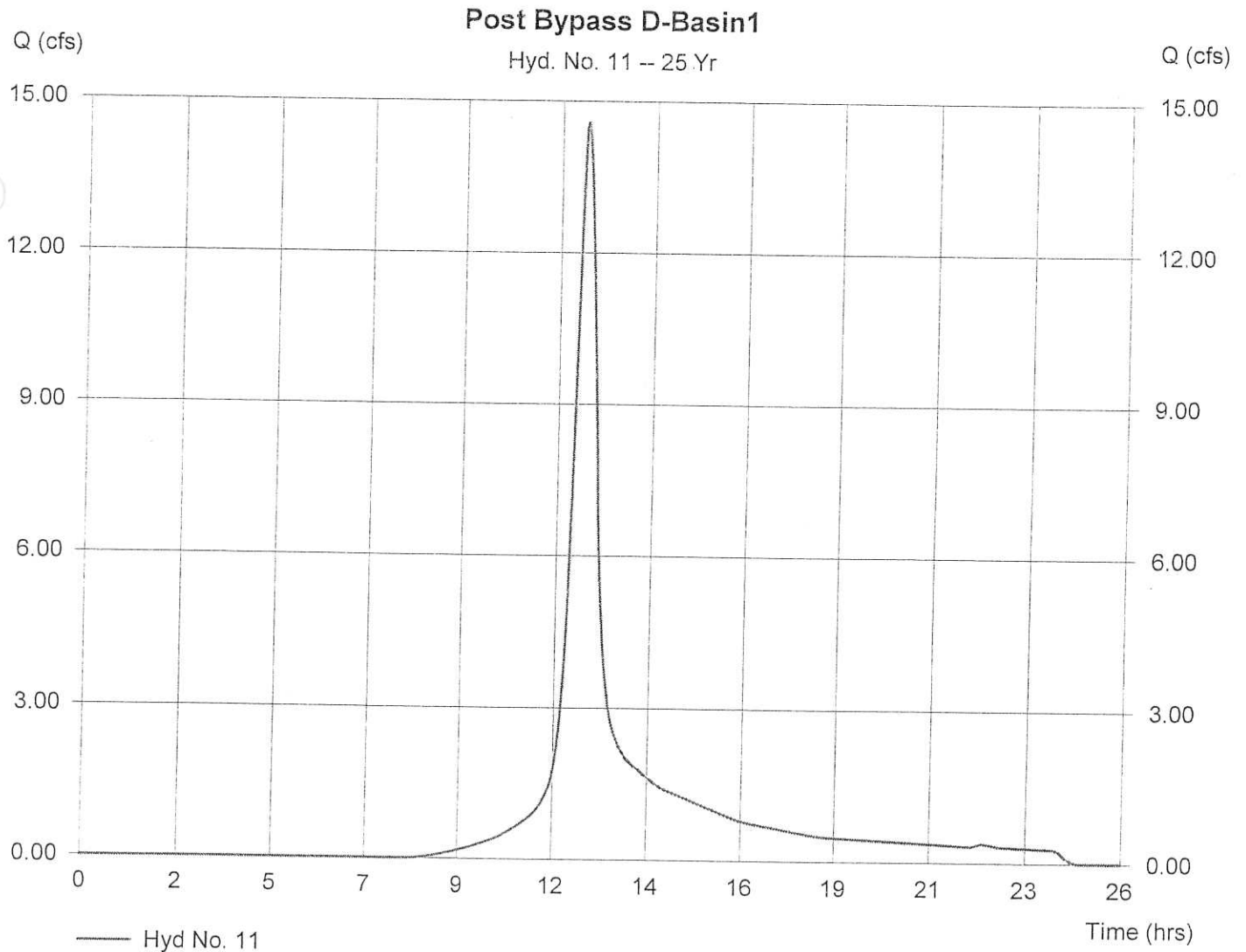
## Hyd. No. 11

Post Bypass D-Basin1

Hydrograph type = SCS Runoff  
 Storm frequency = 25 yrs  
 Drainage area = 6.430 ac  
 Basin Slope = 0.0 %  
 Tc method = USER  
 Total precip. = 5.70 in  
 Storm duration = 24 hrs

Peak discharge = 14.58 cfs  
 Time interval = 2 min  
 Curve number = 76  
 Hydraulic length = 0 ft  
 Time of conc. (Tc) = 26.16 min  
 Distribution = Type III  
 Shape factor = 484

Hydrograph Volume = 71,749 cuft



# Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Friday, Jun 12 2009, 10:0 AM

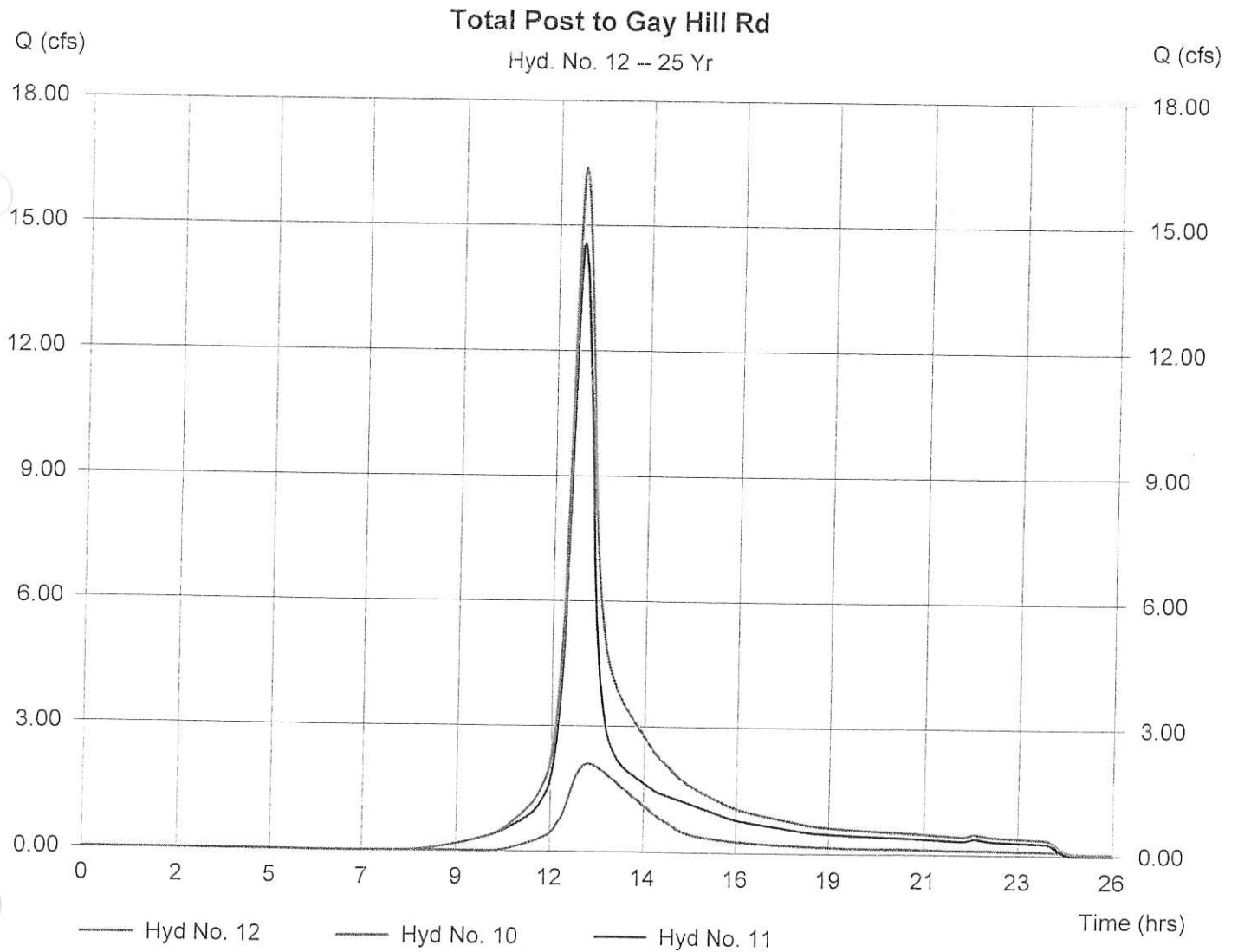
## Hyd. No. 12

Total Post to Gay Hill Rd

Hydrograph type = Combine  
Storm frequency = 25 yrs  
Inflow hyds. = 10, 11

Peak discharge = 16.39 cfs  
Time interval = 2 min

Hydrograph Volume = 94,167 cuft



# Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Friday, Jun 12 2009, 10:0 AM

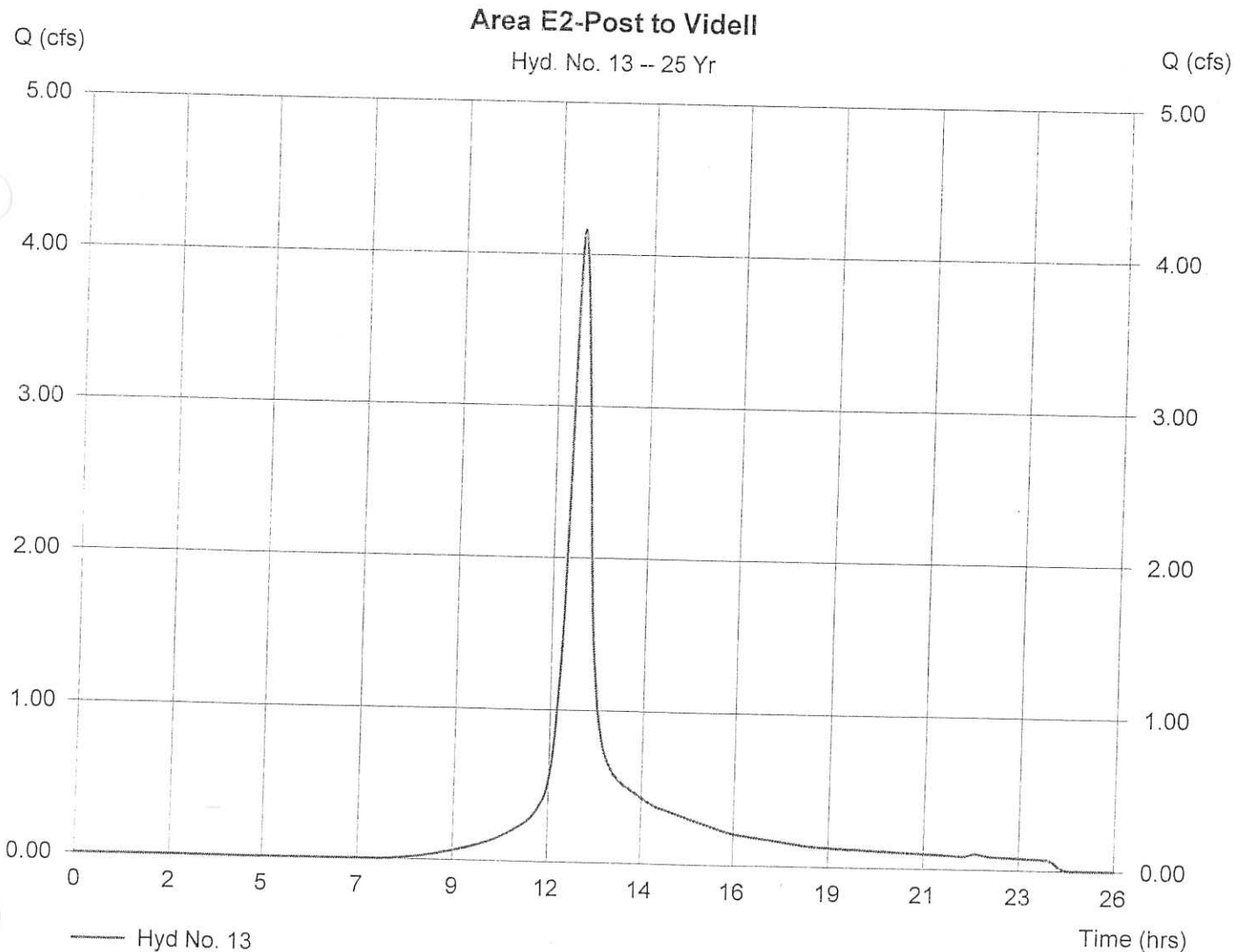
## Hyd. No. 13

Area E2-Post to Videll

Hydrograph type = SCS Runoff  
Storm frequency = 25 yrs  
Drainage area = 1.610 ac  
Basin Slope = 0.0 %  
Tc method = USER  
Total precip. = 5.70 in  
Storm duration = 24 hrs

Peak discharge = 4.169 cfs  
Time interval = 2 min  
Curve number = 78  
Hydraulic length = 0 ft  
Time of conc. (Tc) = 22.38 min  
Distribution = Type III  
Shape factor = 484

Hydrograph Volume = 19,721 cuft



# Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Friday, Jun 12 2009, 10:0 AM

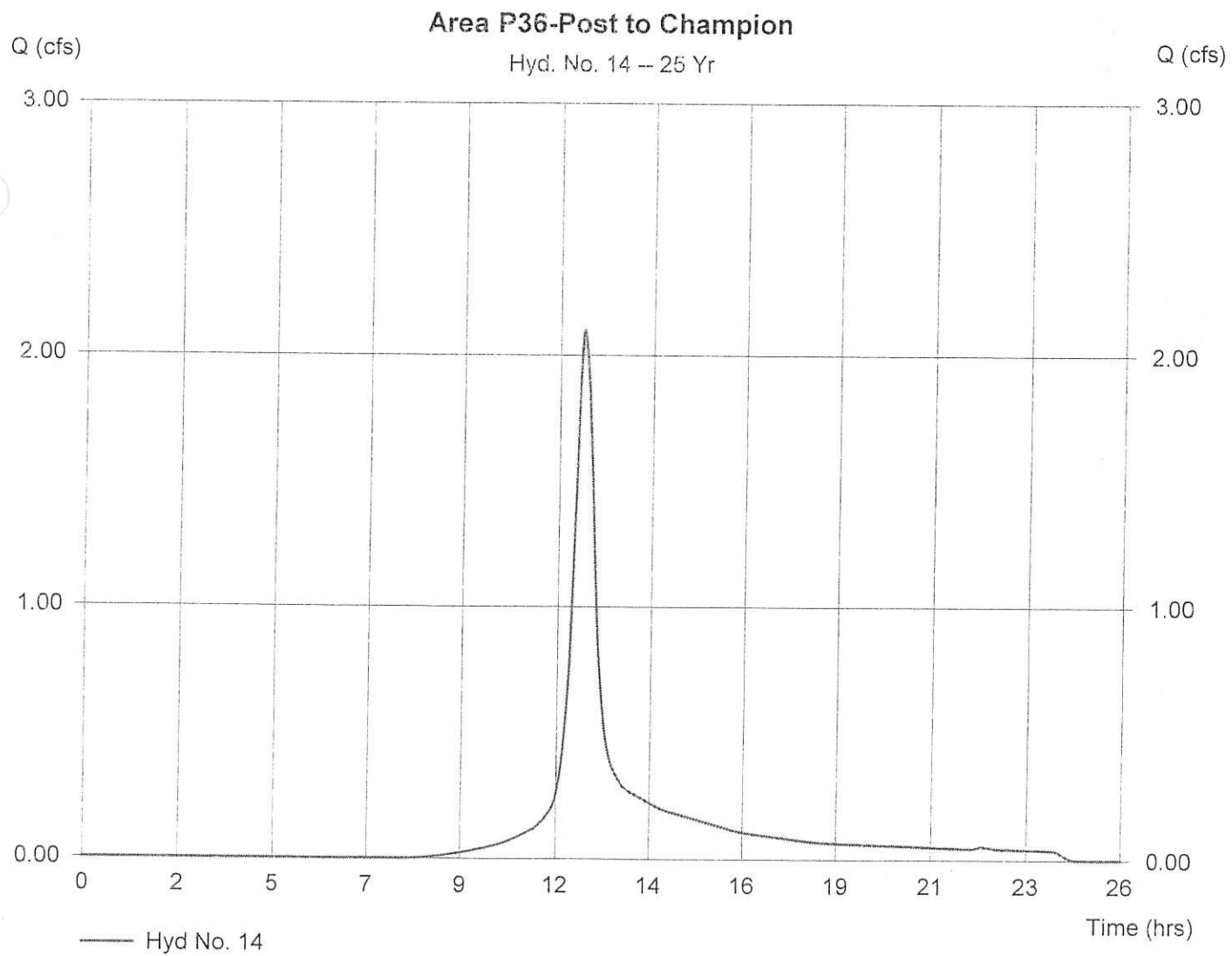
## Hyd. No. 14

Area P36-Post to Champion

Hydrograph type = SCS Runoff  
Storm frequency = 25 yrs  
Drainage area = 0.860 ac  
Basin Slope = 0.0 %  
Tc method = USER  
Total precip. = 5.70 in  
Storm duration = 24 hrs

Peak discharge = 2.098 cfs  
Time interval = 2 min  
Curve number = 76  
Hydraulic length = 0 ft  
Time of conc. (Tc) = 22.62 min  
Distribution = Type III  
Shape factor = 484

Hydrograph Volume = 9,923 cuft



# Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Friday, Jun 12 2009, 10:0 AM

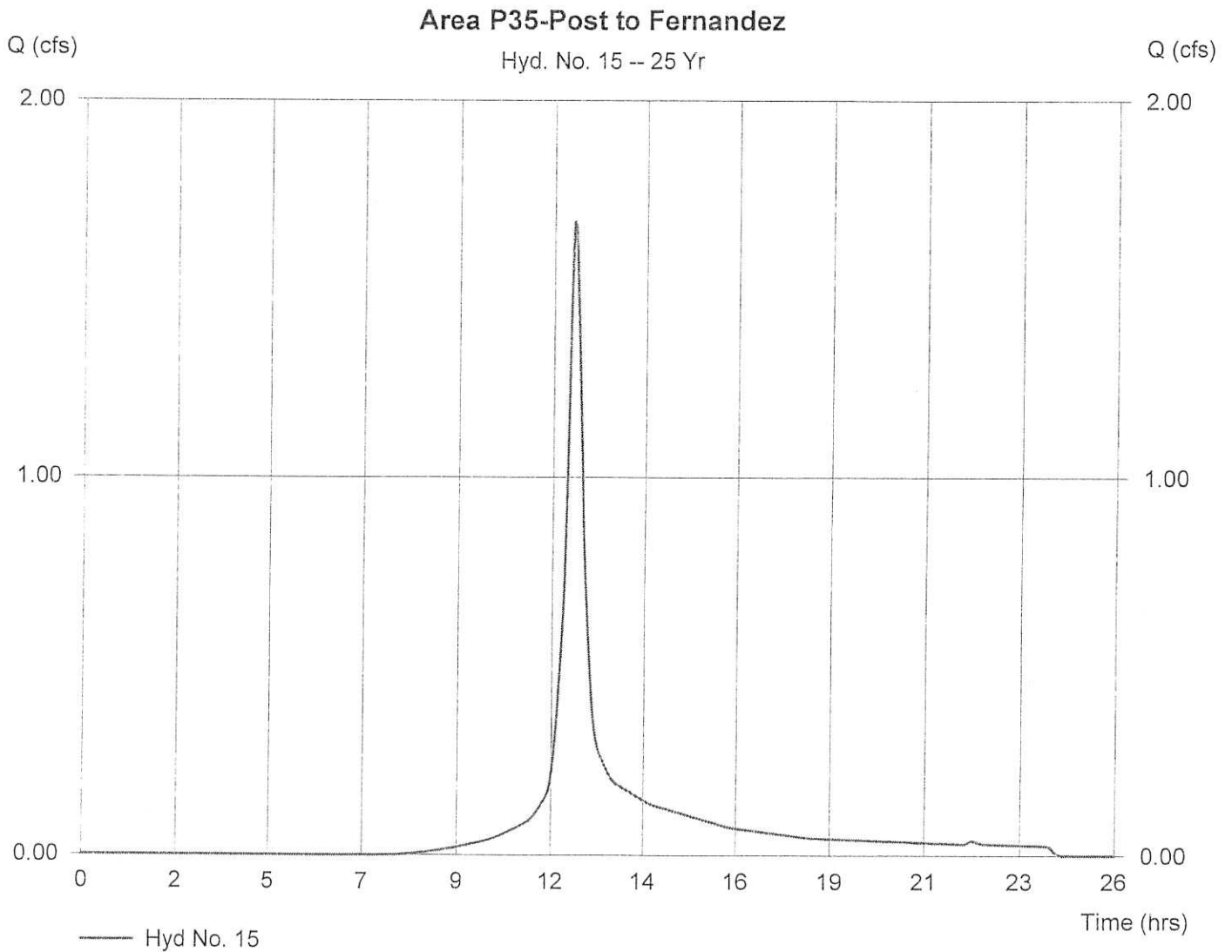
## Hyd. No. 15

Area P35-Post to Fernandez

Hydrograph type = SCS Runoff  
 Storm frequency = 25 yrs  
 Drainage area = 0.600 ac  
 Basin Slope = 0.0 %  
 Tc method = USER  
 Total precip. = 5.70 in  
 Storm duration = 24 hrs

Peak discharge = 1.679 cfs  
 Time interval = 2 min  
 Curve number = 77  
 Hydraulic length = 0 ft  
 Time of conc. (Tc) = 14.76 min  
 Distribution = Type III  
 Shape factor = 484

Hydrograph Volume = 6,835 cuft



# Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Friday, Jun 12 2009, 10:0 AM

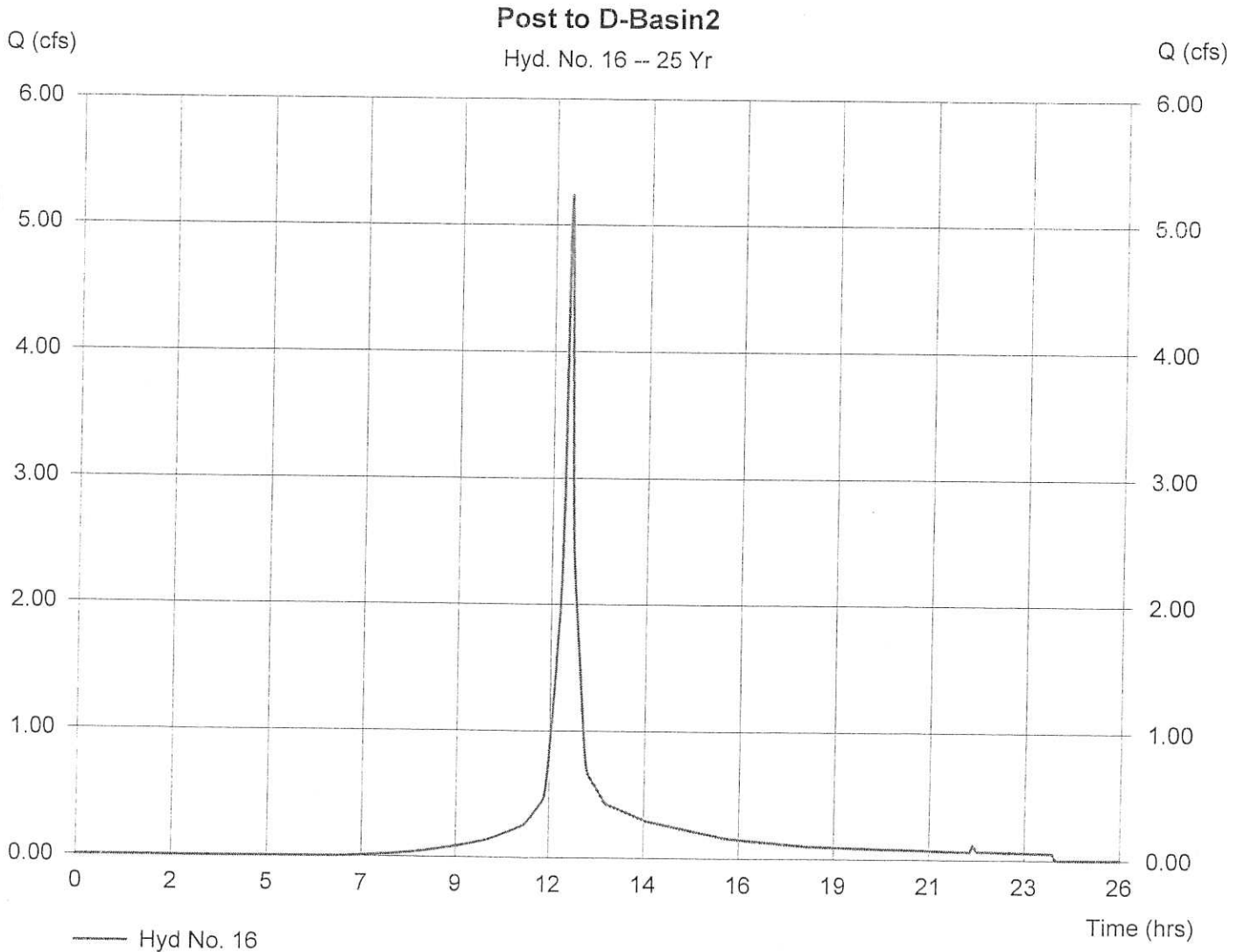
## Hyd. No. 16

Post to D-Basin2

Hydrograph type = SCS Runoff  
 Storm frequency = 25 yrs  
 Drainage area = 1.250 ac  
 Basin Slope = 0.0 %  
 Tc method = USER  
 Total precip. = 5.70 in  
 Storm duration = 24 hrs

Peak discharge = 5.237 cfs  
 Time interval = 2 min  
 Curve number = 82  
 Hydraulic length = 0 ft  
 Time of conc. (Tc) = 6.00 min  
 Distribution = Type III  
 Shape factor = 484

Hydrograph Volume = 15,791 cuft





# Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Friday, Jun 12 2009, 10:0 AM

## Hyd. No. 17

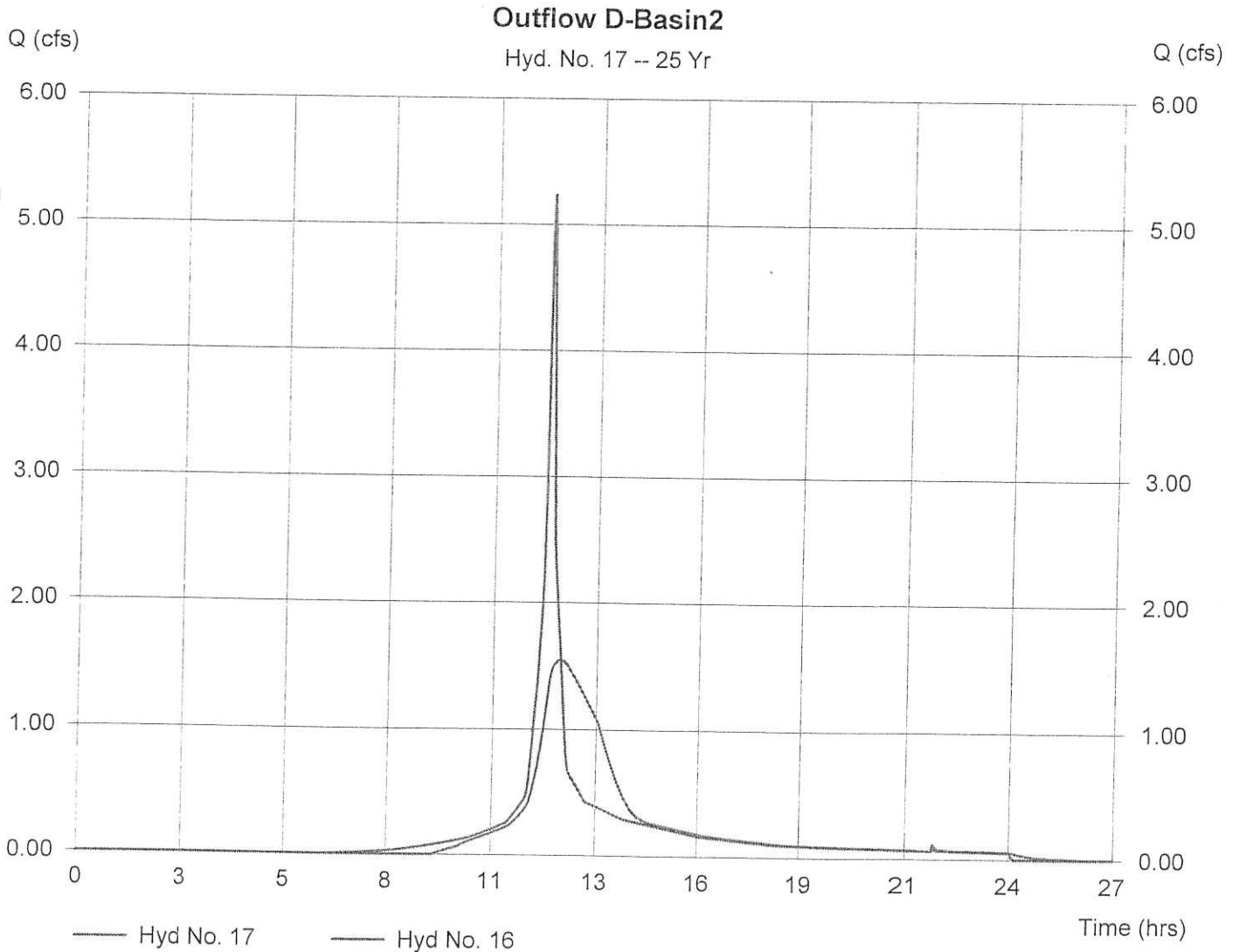
Outflow D-Basin2

Hydrograph type = Reservoir  
Storm frequency = 25 yrs  
Inflow hyd. No. = 16  
Reservoir name = D-Basin2

Peak discharge = 1.547 cfs  
Time interval = 2 min  
Max. Elevation = 335.43 ft  
Max. Storage = 4,294 cuft

Storage Indication method used.

Hydrograph Volume = 15,507 cuft



# Pond Report

Hydraflow Hydrographs by Intelisolve

Friday, Jun 12 2009, 10:0 AM

Pond No. 2 - D-Basin2

## Pond Data

Pond storage is based on known contour areas. Average end area method used.

## Stage / Storage Table

Stage (ft)	Elevation (ft)	Contour area (sqft)	Incr. Storage (cuft)	Total storage (cuft)
0.00	332.00	465	0	0
0.50	332.50	663	282	282
2.00	334.00	1,260	1,442	1,724
4.00	336.00	2,335	3,595	5,319
5.50	337.50	3,800	4,601	9,921

## Culvert / Orifice Structures

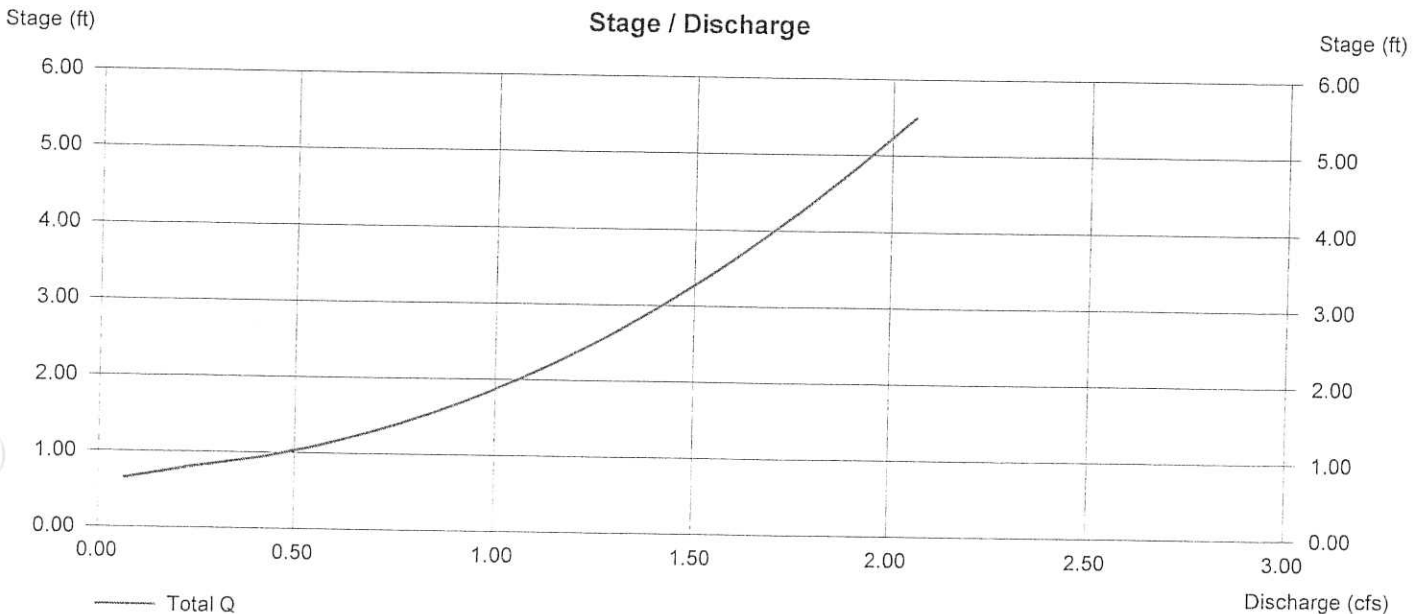
	[A]	[B]	[C]	[D]
Rise (in)	= 6.00	0.00	0.00	0.00
Span (in)	= 6.00	0.00	0.00	0.00
No. Barrels	= 1	0	0	0
Invert El. (ft)	= 332.50	0.00	0.00	0.00
Length (ft)	= 0.00	0.00	0.00	0.00
Slope (%)	= 0.00	0.00	0.00	0.00
N-Value	= .013	.000	.000	.000
Orif. Coeff.	= 0.60	0.00	0.00	0.00
Multi-Stage	= n/a	No	No	No

## Weir Structures

	[A]	[B]	[C]	[D]
Crest Len (ft)	= 0.00	0.00	0.00	0.00
Crest El. (ft)	= 0.00	0.00	0.00	0.00
Weir Coeff.	= 0.00	0.00	0.00	0.00
Weir Type	= ---	---	---	---
Multi-Stage	= No	No	No	No

Exfiltration = 0.000 in/hr (Contour) Tailwater Elev. = 0.00 ft

Note: Culvert/Orifice outflows have been analyzed under inlet and outlet control.



# Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Friday, Jun 12 2009, 10:0 AM

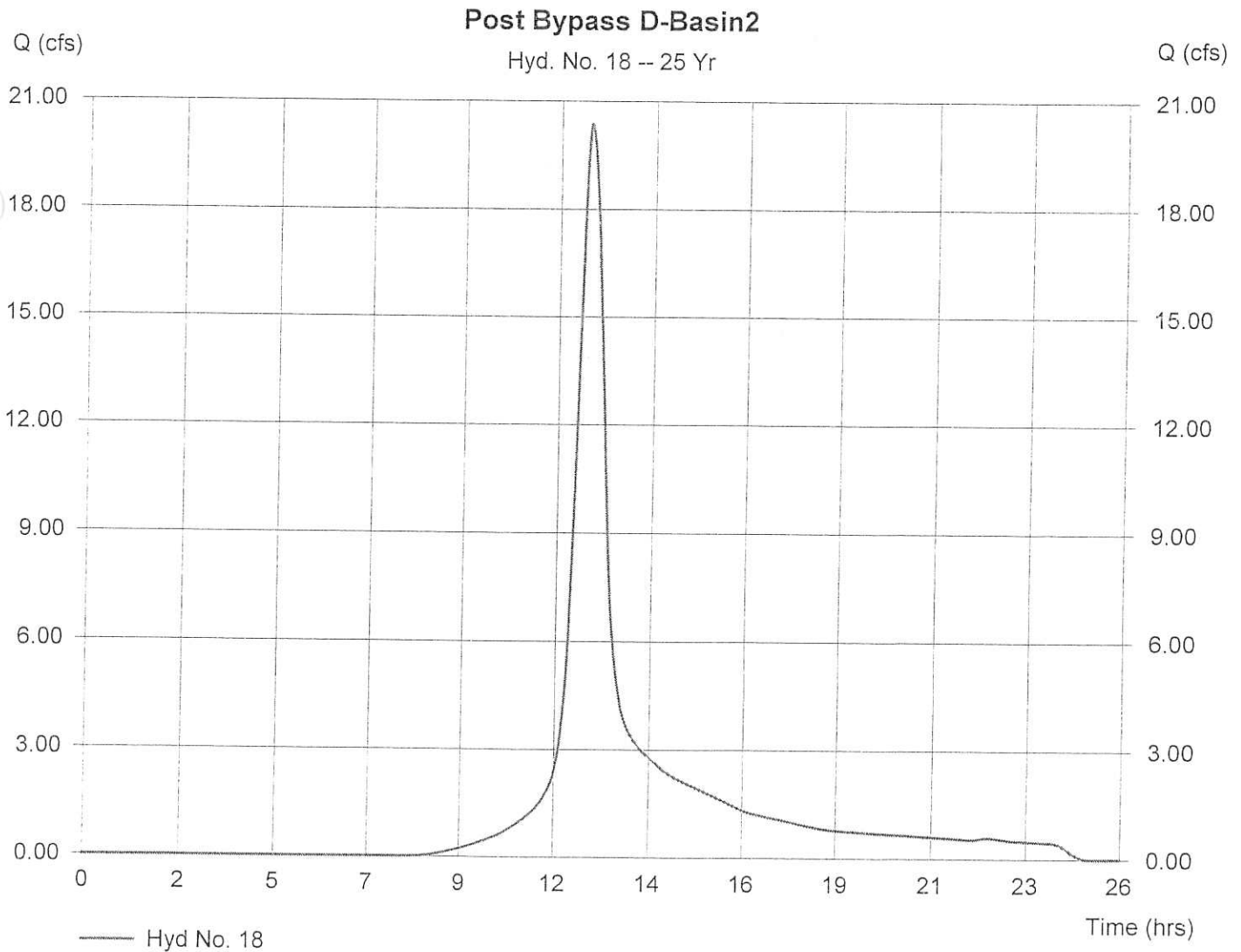
## Hyd. No. 18

Post Bypass D-Basin2

Hydrograph type = SCS Runoff  
 Storm frequency = 25 yrs  
 Drainage area = 10.380 ac  
 Basin Slope = 0.0 %  
 Tc method = USER  
 Total precip. = 5.70 in  
 Storm duration = 24 hrs

Peak discharge = 20.37 cfs  
 Time interval = 2 min  
 Curve number = 76  
 Hydraulic length = 0 ft  
 Time of conc. (Tc) = 34.62 min  
 Distribution = Type III  
 Shape factor = 484

Hydrograph Volume = 116,327 cuft



# Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Friday, Jun 12 2009, 10:0 AM

## Hyd. No. 19

Total Post to Evans

Hydrograph type = Combine

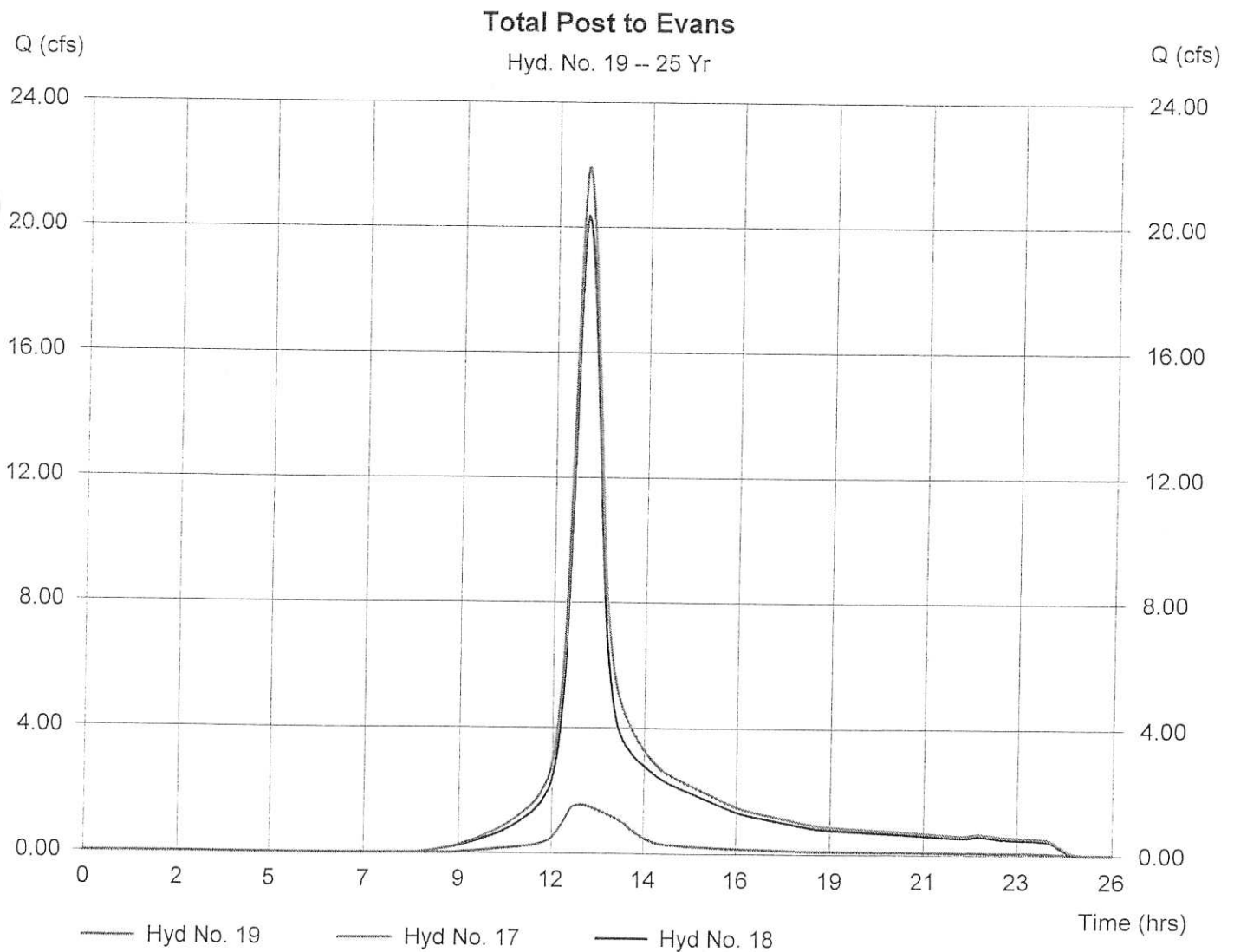
Storm frequency = 25 yrs

Inflow hyds. = 17, 18

Peak discharge = 21.92 cfs

Time interval = 2 min

Hydrograph Volume = 131,834 cuft



# Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Friday, Jun 12 2009, 10:0 AM

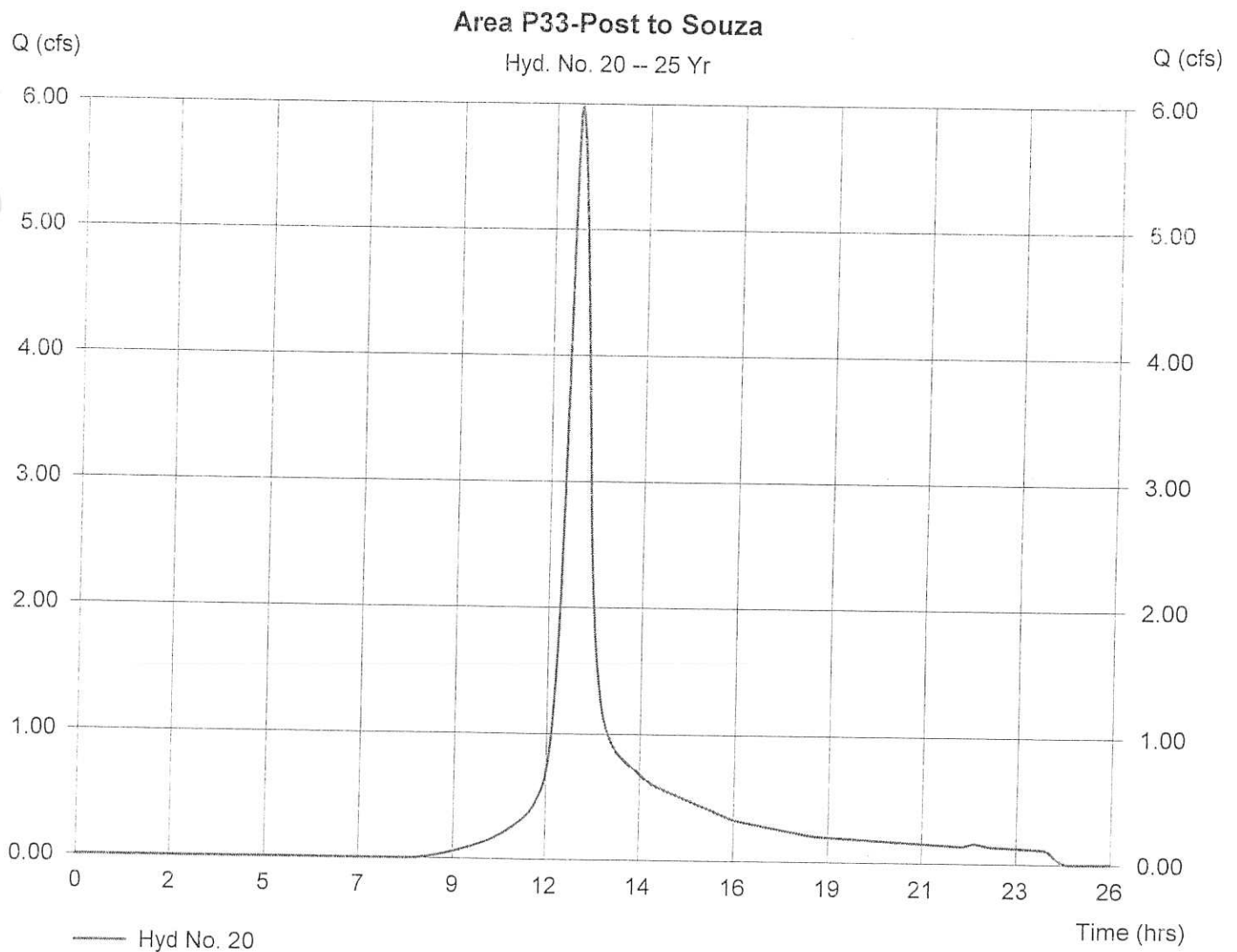
## Hyd. No. 20

Area P33-Post to Souza

Hydrograph type = SCS Runoff  
 Storm frequency = 25 yrs  
 Drainage area = 2.720 ac  
 Basin Slope = 0.0 %  
 Tc method = USER  
 Total precip. = 5.70 in  
 Storm duration = 24 hrs

Peak discharge = 5.975 cfs  
 Time interval = 2 min  
 Curve number = 75  
 Hydraulic length = 0 ft  
 Time of conc. (Tc) = 24.30 min  
 Distribution = Type III  
 Shape factor = 484

Hydrograph Volume = 29,430 cuft



# Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Friday, Jun 12 2009, 10:0 AM

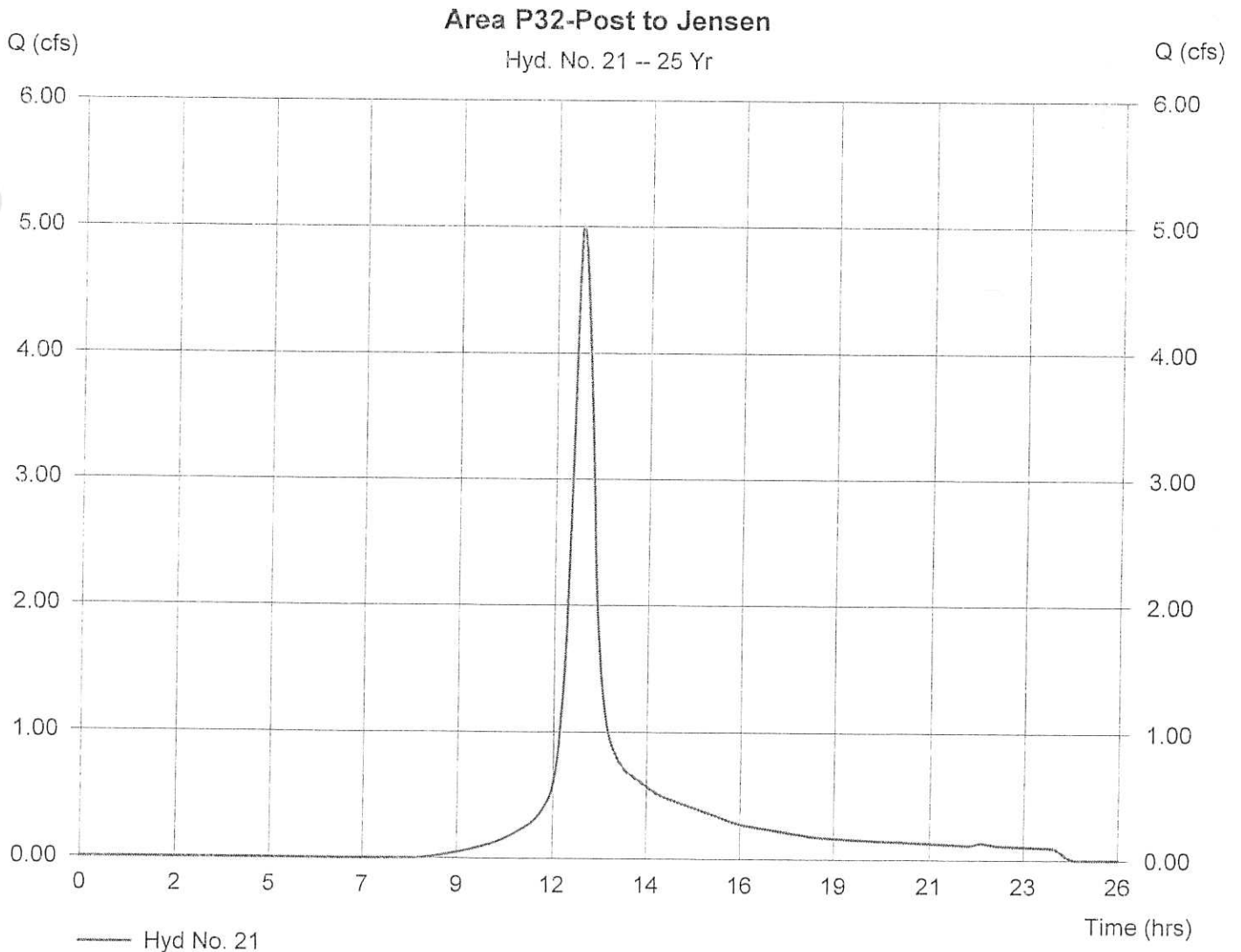
## Hyd. No. 21

Area P32-Post to Jensen

Hydrograph type = SCS Runoff  
Storm frequency = 25 yrs  
Drainage area = 2.280 ac  
Basin Slope = 0.0 %  
Tc method = USER  
Total precip. = 5.70 in  
Storm duration = 24 hrs

Peak discharge = 5.008 cfs  
Time interval = 2 min  
Curve number = 75  
Hydraulic length = 0 ft  
Time of conc. (Tc) = 23.76 min  
Distribution = Type III  
Shape factor = 484

Hydrograph Volume = 24,670 cuft



# Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Friday, Jun 12 2009, 10:0 AM

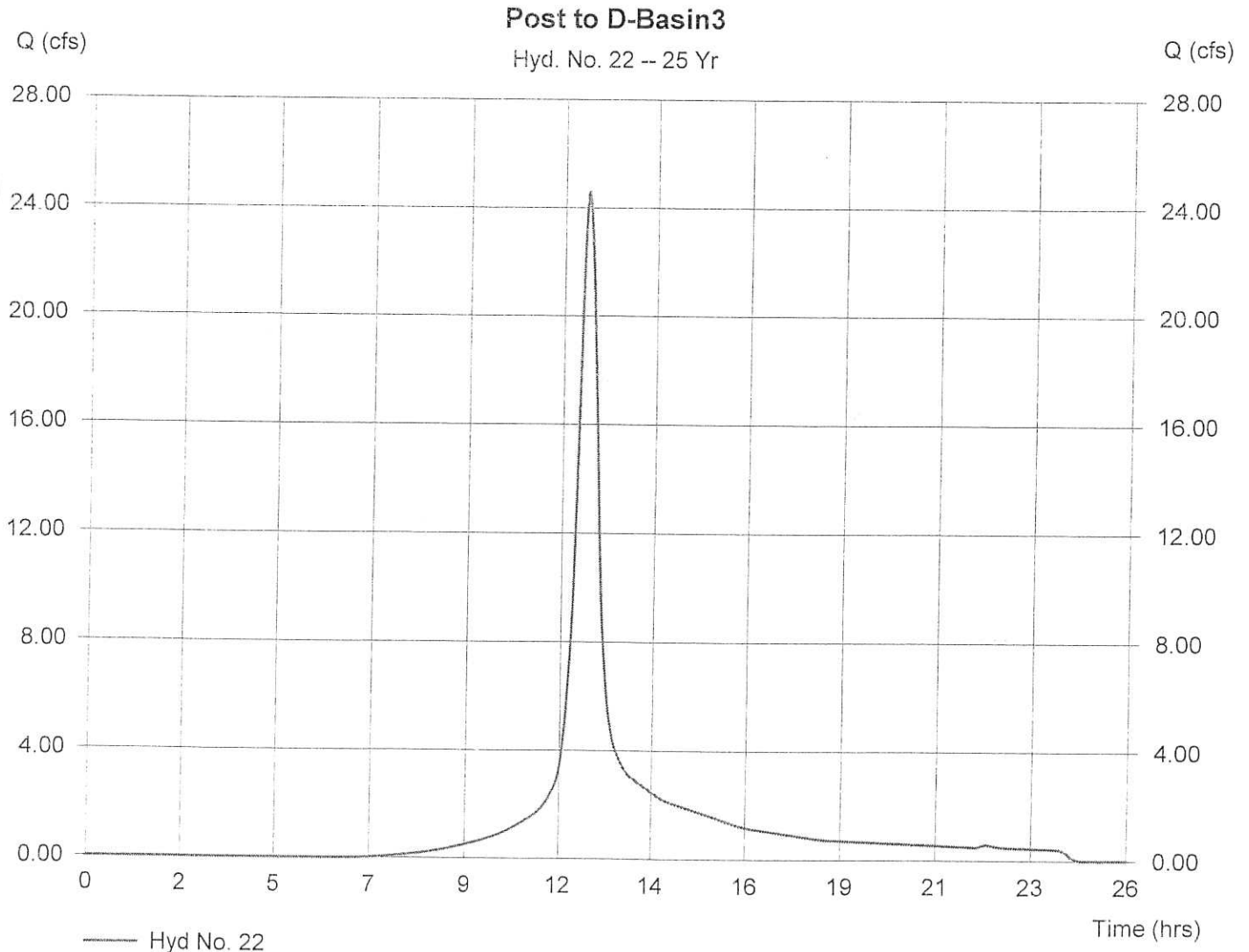
## Hyd. No. 22

Post to D-Basin3

Hydrograph type = SCS Runoff  
 Storm frequency = 25 yrs  
 Drainage area = 8.750 ac  
 Basin Slope = 0.0 %  
 Tc method = USER  
 Total precip. = 5.70 in  
 Storm duration = 24 hrs

Peak discharge = 24.59 cfs  
 Time interval = 2 min  
 Curve number = 81  
 Hydraulic length = 0 ft  
 Time of conc. (Tc) = 20.82 min  
 Distribution = Type III  
 Shape factor = 484

Hydrograph Volume = 116,756 cuft



# Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Friday, Jun 12 2009, 10:0 AM

## Hyd. No. 23

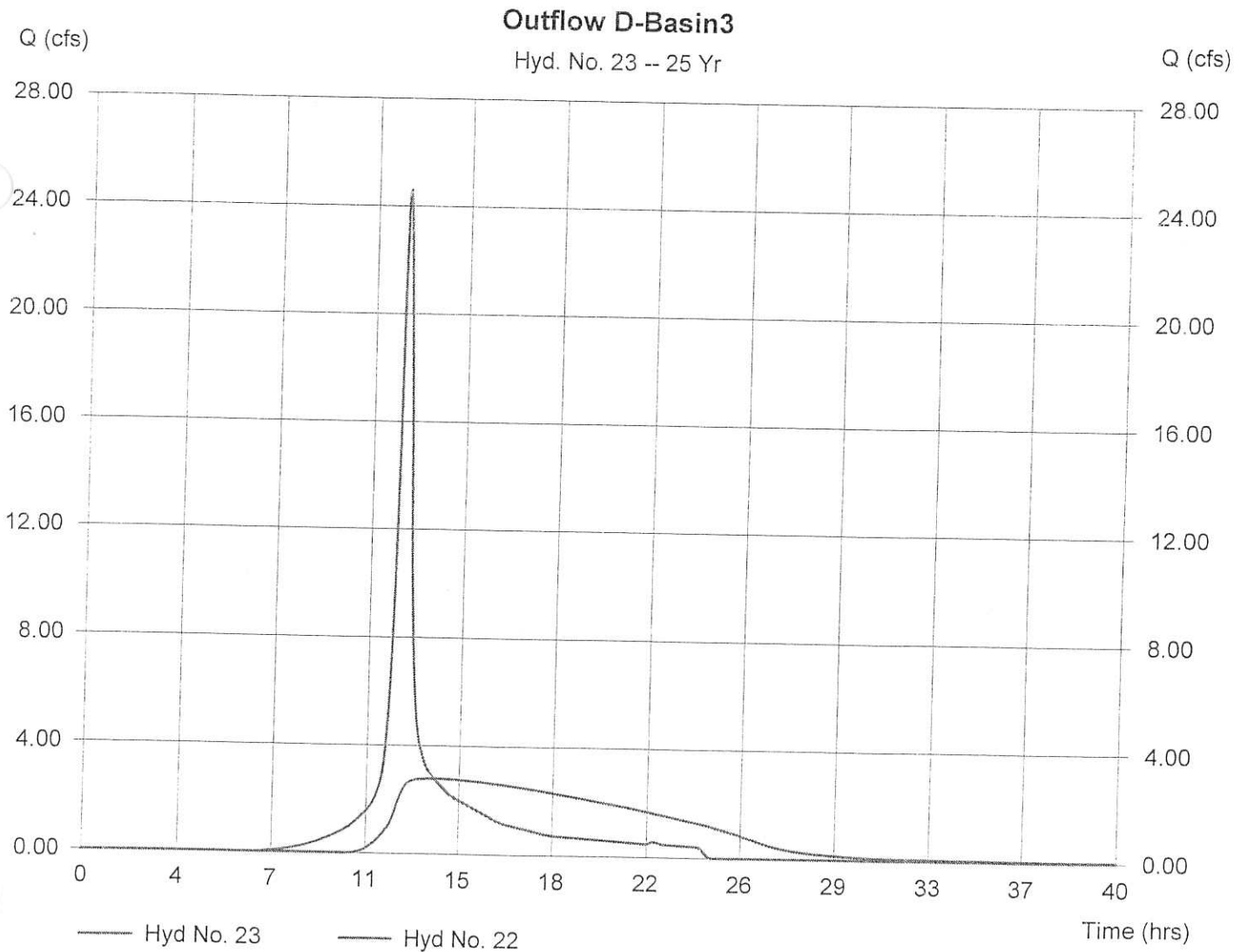
Outflow D-Basin3

Hydrograph type = Reservoir  
Storm frequency = 25 yrs  
Inflow hyd. No. = 22  
Reservoir name = D-Basin3

Peak discharge = 2.779 cfs  
Time interval = 2 min  
Max. Elevation = 339.57 ft  
Max. Storage = 63,003 cuft

Storage Indication method used.

Hydrograph Volume = 112,675 cuft





# Pond Report

Hydraflow Hydrographs by Intelisolve

Friday, Jun 12 2009, 10:0 AM

## Pond No. 3 - D-Basin3

### Pond Data

Pond storage is based on known contour areas. Average end area method used.

### Stage / Storage Table

Stage (ft)	Elevation (ft)	Contour area (sqft)	Incr. Storage (cuft)	Total storage (cuft)
0.00	336.00	5,355	0	0
0.50	336.50	10,675	4,008	4,008
1.00	337.00	15,995	6,668	10,675
2.00	338.00	20,015	18,005	28,680
3.00	339.00	22,085	21,050	49,730
4.00	340.00	24,700	23,393	73,123
5.00	341.00	28,345	26,523	99,645

### Culvert / Orifice Structures

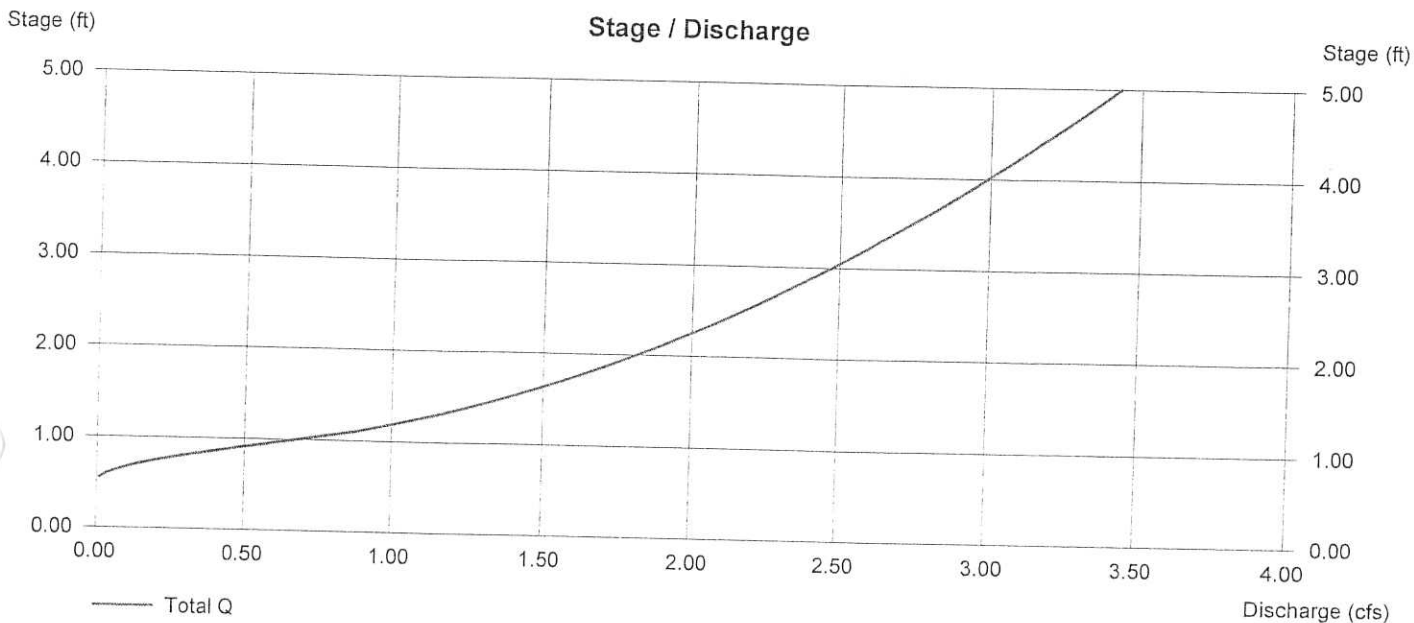
	[A]	[B]	[C]	[D]
Rise (in)	= 8.00	0.00	0.00	0.00
Span (in)	= 8.00	0.00	0.00	0.00
No. Barrels	= 1	0	0	0
Invert El. (ft)	= 336.50	0.00	0.00	0.00
Length (ft)	= 0.00	0.00	0.00	0.00
Slope (%)	= 0.00	0.00	0.00	0.00
N-Value	= .013	.000	.000	.000
Orif. Coeff.	= 0.60	0.00	0.00	0.00
Multi-Stage	= n/a	No	No	No

### Weir Structures

	[A]	[B]	[C]	[D]
Crest Len (ft)	= 0.00	0.00	0.00	0.00
Crest El. (ft)	= 0.00	0.00	0.00	0.00
Weir Coeff.	= 0.00	0.00	0.00	0.00
Weir Type	= ---	---	---	---
Multi-Stage	= No	No	No	No

Exfiltration = 0.000 in/hr (Contour) Tailwater Elev. = 0.00 ft

Note: Culvert/Orifice outflows have been analyzed under inlet and outlet control.



# Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Friday, Jun 12 2009, 10:0 AM

## Hyd. No. 24

Post Bypass D-Basin3

Hydrograph type = SCS Runoff  
 Storm frequency = 25 yrs  
 Drainage area = 10.940 ac  
 Basin Slope = 0.0 %  
 Tc method = USER  
 Total precip. = 5.70 in  
 Storm duration = 24 hrs

Peak discharge = 25.04 cfs  
 Time interval = 2 min  
 Curve number = 74  
 Hydraulic length = 0 ft  
 Time of conc. (Tc) = 20.90 min  
 Distribution = Type III  
 Shape factor = 484

Hydrograph Volume = 118,607 cuft

