

Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Friday, Jun 12 2009, 10:0 AM

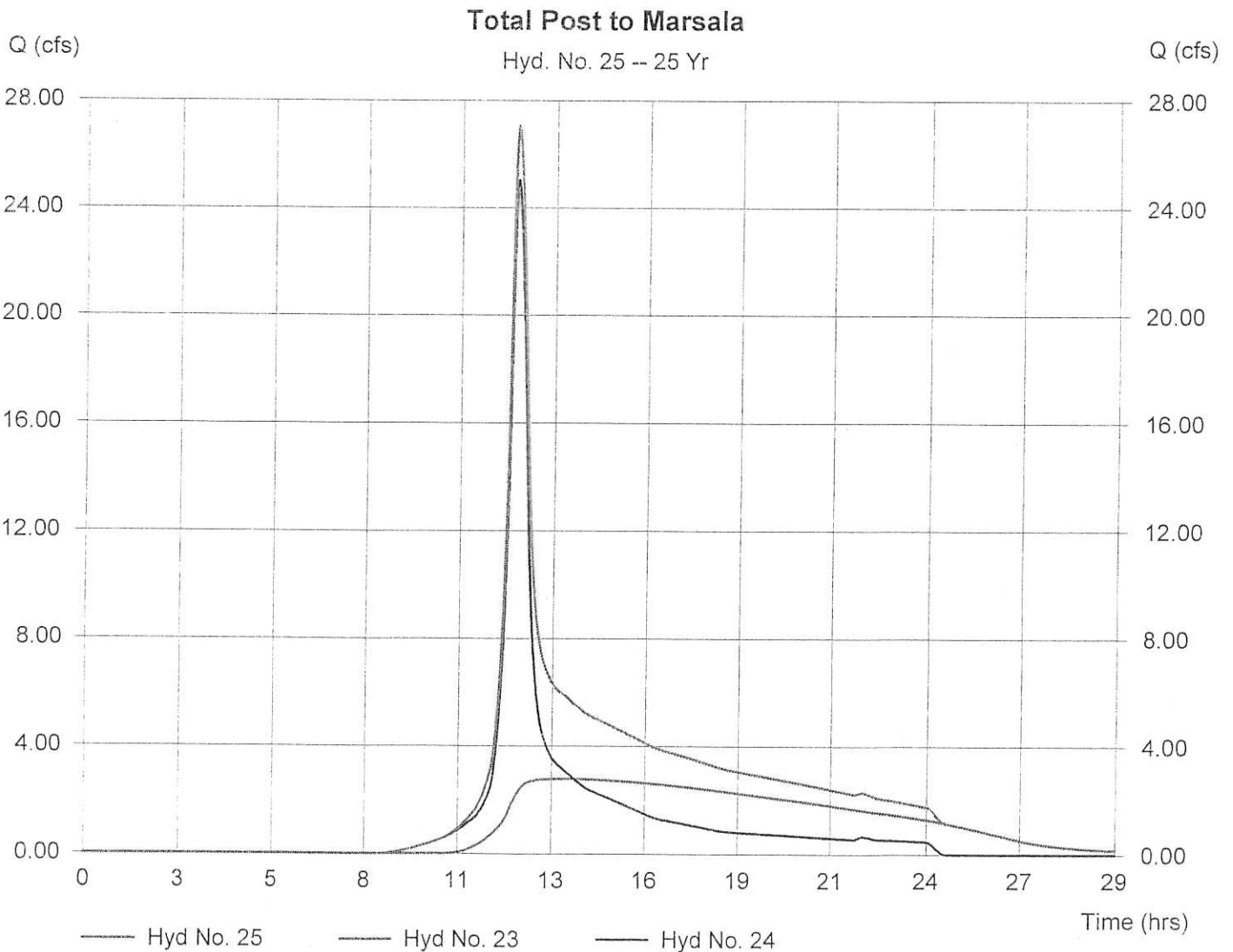
Hyd. No. 25

Total Post to Marsala

Hydrograph type = Combine
 Storm frequency = 25 yrs
 Inflow hyds. = 23, 24

Peak discharge = 27.07 cfs
 Time interval = 2 min

Hydrograph Volume = 231,282 cuft



Hydrograph Summary Report

Hydrograph 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	21.14	2	738	104,064	----	-----	-----	Area E1-Pre to Gay Hill Rd	
2	SCS Runoff	5.806	6	738	30,181	----	-----	-----	Area E2-Pre to Videll	
3	SCS Runoff	2.476	2	736	11,721	----	-----	-----	Area E3- Pre to Champion	
4	SCS Runoff	2.000	2	730	8,154	----	-----	-----	Area E4-Pre to Fernandez	
5	SCS Runoff	26.37	2	750	166,229	----	-----	-----	Area E8-Pre to Evans	
6	SCS Runoff	8.260	2	738	40,687	----	-----	-----	Area E6-Pre to Souza	
7	SCS Runoff	5.862	2	738	28,875	----	-----	-----	Area E7-Pre to Jensen	
8	SCS Runoff	34.86	2	744	199,057	----	-----	-----	Area E8-Pre to Marsala	
9	SCS Runoff	6.003	2	732	26,629	----	-----	-----	Post to D-Basin1	
10	Reservoir	2.290	2	756	25,975	9	317.69	8,445	Outflow D-Basin1	
11	SCS Runoff	16.99	2	738	83,642	----	-----	-----	Post Bypass D-Basin1	
12	Combine	18.98	2	738	109,616	10, 11	-----	-----	Total Post to Gay Hill Rd	
13	SCS Runoff	4.828	2	736	22,873	----	-----	-----	Area E2-Post to Videll	
14	SCS Runoff	2.445	2	736	11,567	----	-----	-----	Area P36-Post to Champion	
15	SCS Runoff	1.952	2	730	7,947	----	-----	-----	Area P35-Post to Fernandez	
16	SCS Runoff	5.988	2	724	18,139	----	-----	-----	Post to D-Basin2	
17	Reservoir	1.668	2	744	17,854	16	335.86	5,073	Outflow D-Basin2	
18	SCS Runoff	23.77	2	744	135,608	----	-----	-----	Post Bypass D-Basin2	
19	Combine	25.44	2	744	153,462	17, 18	-----	-----	Total Post to Evans	
20	SCS Runoff	6.989	2	738	34,398	----	-----	-----	Area P33-Post to Souza	
21	SCS Runoff	5.858	2	738	28,834	----	-----	-----	Area P32-Post to Jensen	
22	SCS Runoff	28.23	2	736	134,430	----	-----	-----	Post to D-Basin3	
23	Reservoir	3.001	2	828	130,350	22	340.02	73,700	Outflow D-Basin3	
24	SCS Runoff	29.39	2	736	138,999	----	-----	-----	Post Bypass D-Basin3	
25	Combine	31.61	2	736	269,348	23, 24	-----	-----	Total Post to Marsala	
9R Burlake Rd LLC.gpw					Return Period: 50 Year		Friday, Jun 12 2009, 10:00 AM			

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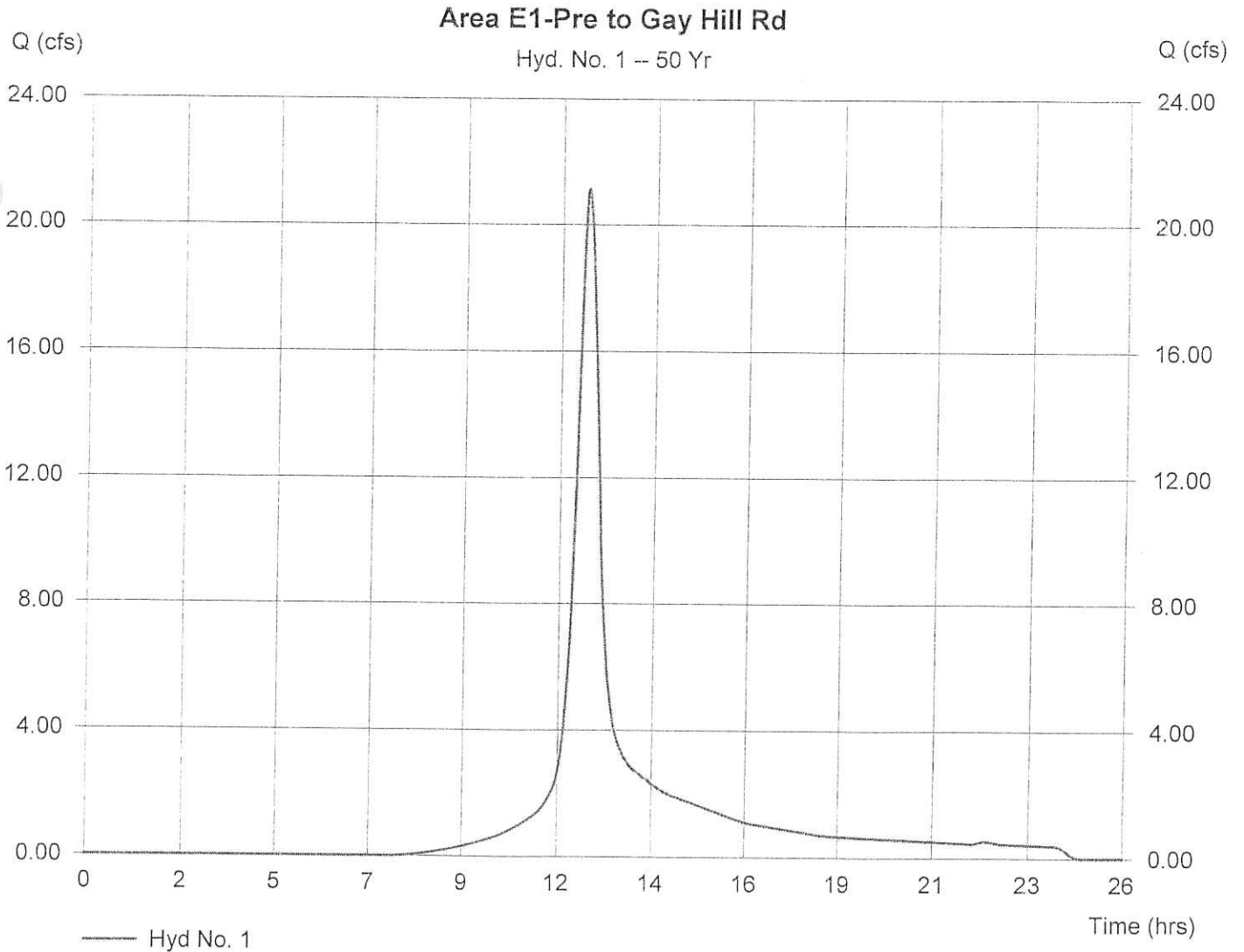
Hyd. No. 1

Area E1-Pre to Gay Hill Rd

Hydrograph type = SCS Runoff
Storm frequency = 50 yrs
Drainage area = 8.000 ac
Basin Slope = 0.0 %
Tc method = USER
Total precip. = 6.30 in
Storm duration = 24 hrs

Peak discharge = 21.14 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 = 104,064 cuft



Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

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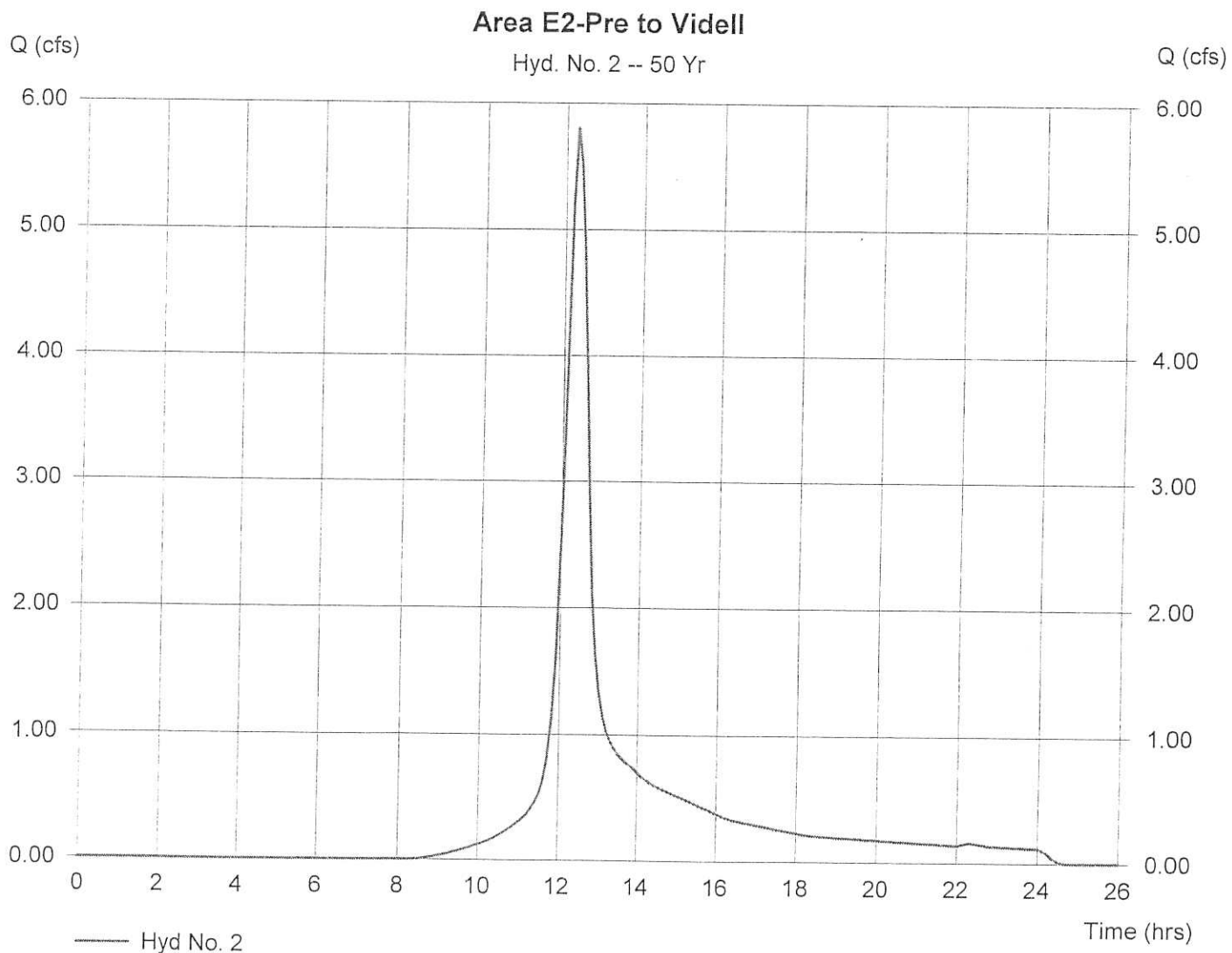
Hyd. No. 2

Area E2-Pre to Videll

Hydrograph type = SCS Runoff
 Storm frequency = 50 yrs
 Drainage area = 2.490 ac
 Basin Slope = 0.0 %
 Tc method = USER
 Total precip. = 6.30 in
 Storm duration = 24 hrs

Peak discharge = 5.806 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 = 30,181 cuft



Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

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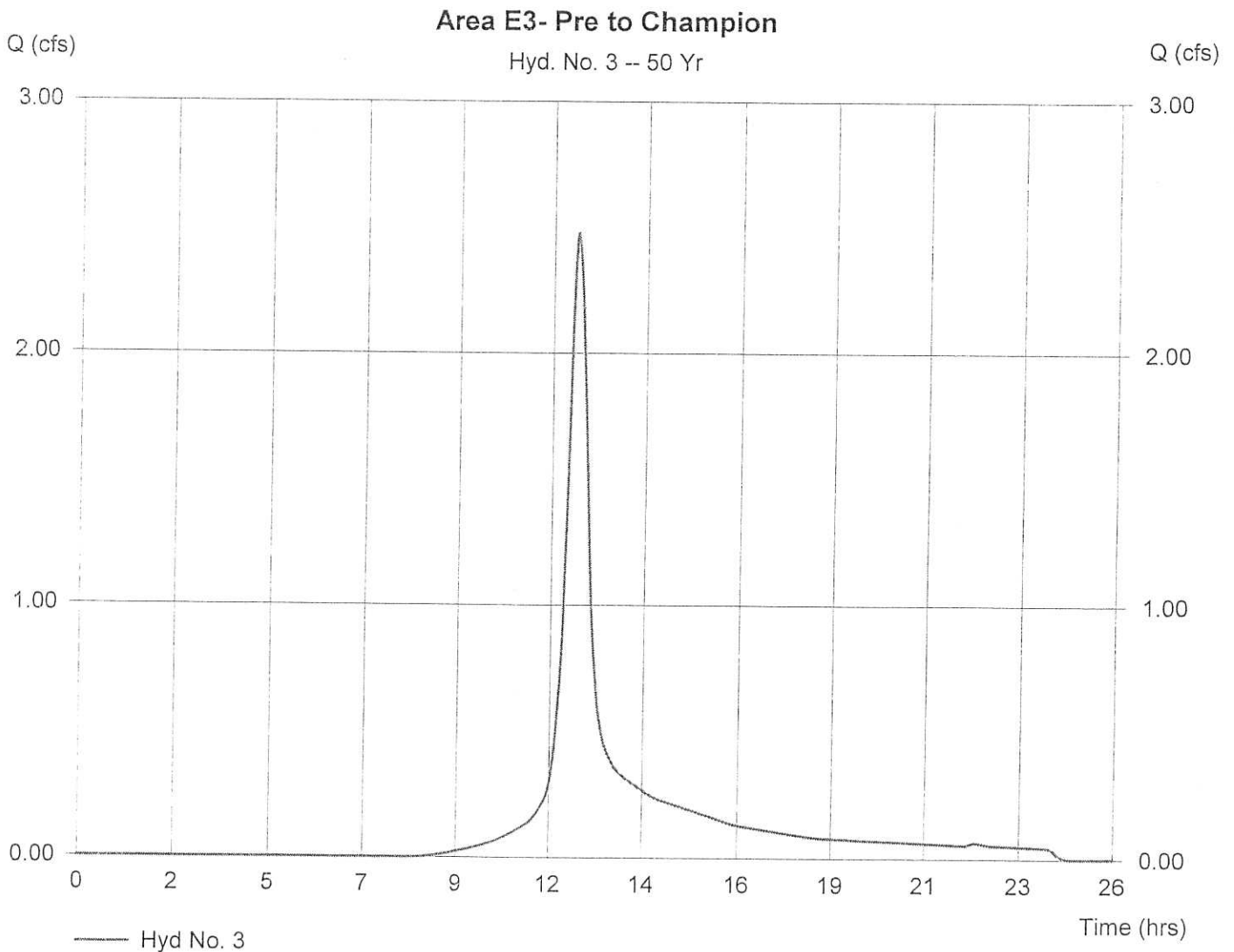
Hyd. No. 3

Area E3- Pre to Champion

Hydrograph type = SCS Runoff
 Storm frequency = 50 yrs
 Drainage area = 0.950 ac
 Basin Slope = 0.0 %
 Tc method = USER
 Total precip. = 6.30 in
 Storm duration = 24 hrs

Peak discharge = 2.476 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 = 11,721 cuft



Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

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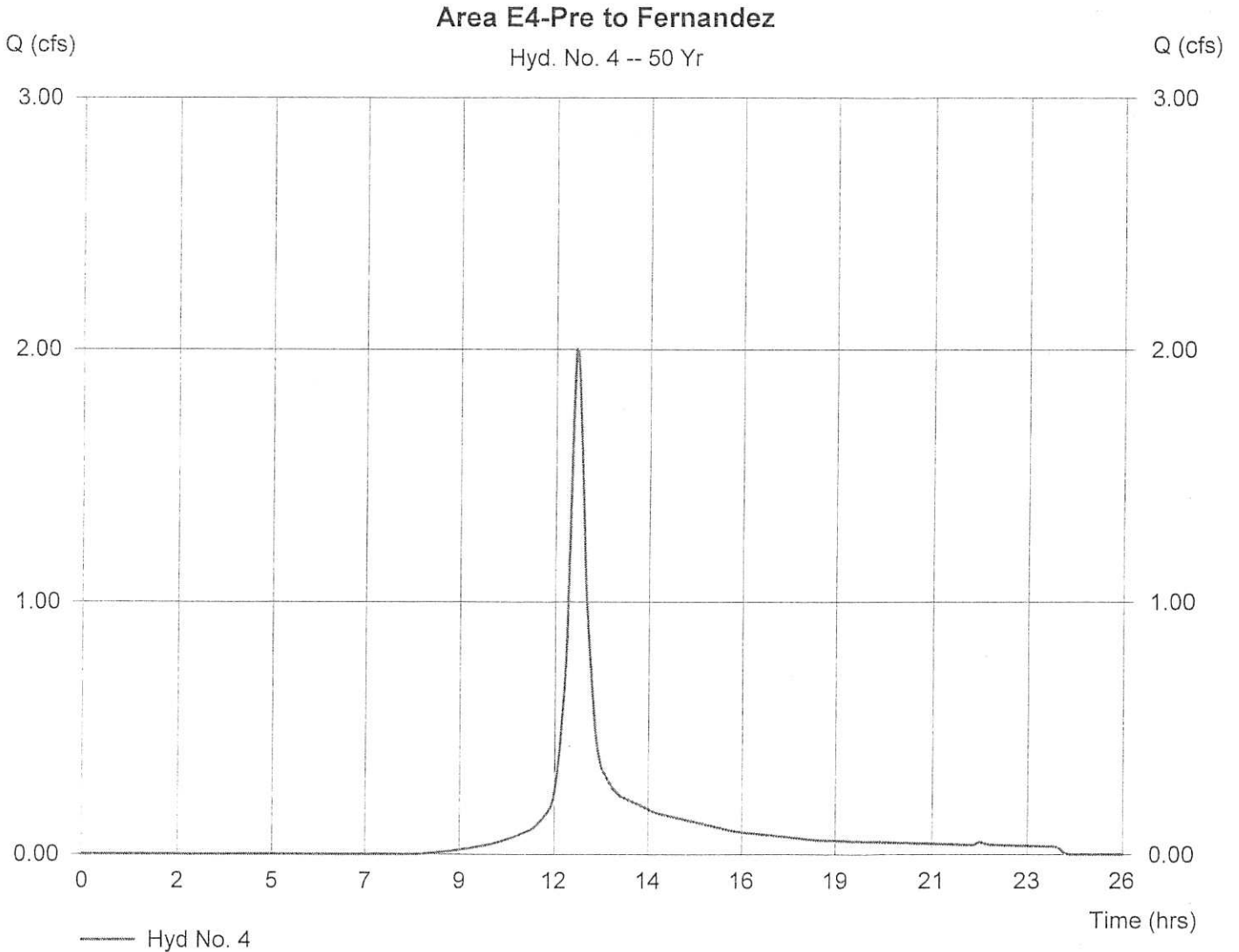
Hyd. No. 4

Area E4-Pre to Fernandez

Hydrograph type = SCS Runoff
Storm frequency = 50 yrs
Drainage area = 0.690 ac
Basin Slope = 0.0 %
Tc method = USER
Total precip. = 6.30 in
Storm duration = 24 hrs

Peak discharge = 2.000 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 = 8,154 cuft



Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Friday, Jun 12 2009, 10:0 AM

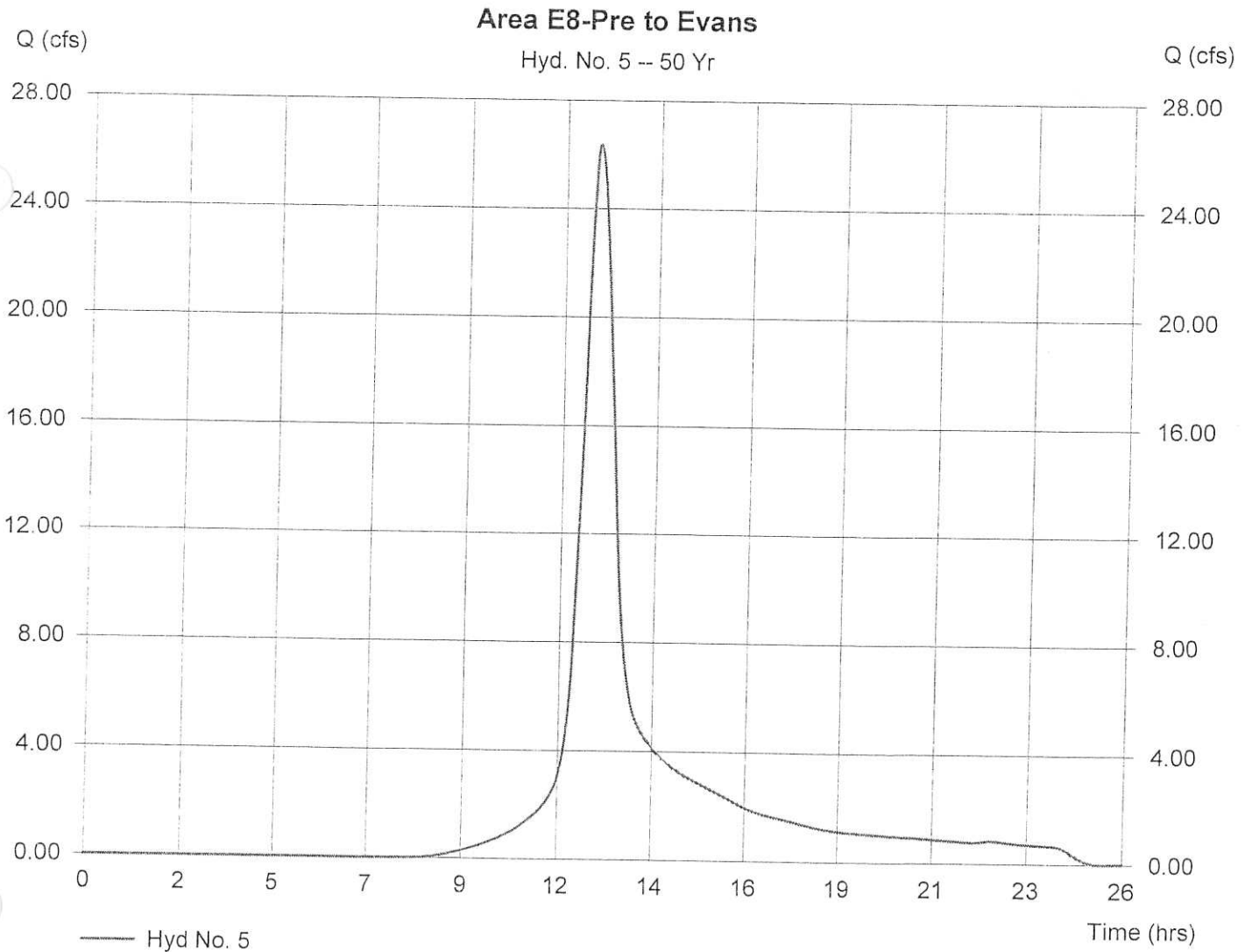
Hyd. No. 5

Area E8-Pre to Evans

Hydrograph type = SCS Runoff
 Storm frequency = 50 yrs
 Drainage area = 13.190 ac
 Basin Slope = 0.0 %
 Tc method = USER
 Total precip. = 6.30 in
 Storm duration = 24 hrs

Peak discharge = 26.37 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 = 166,229 cuft



Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

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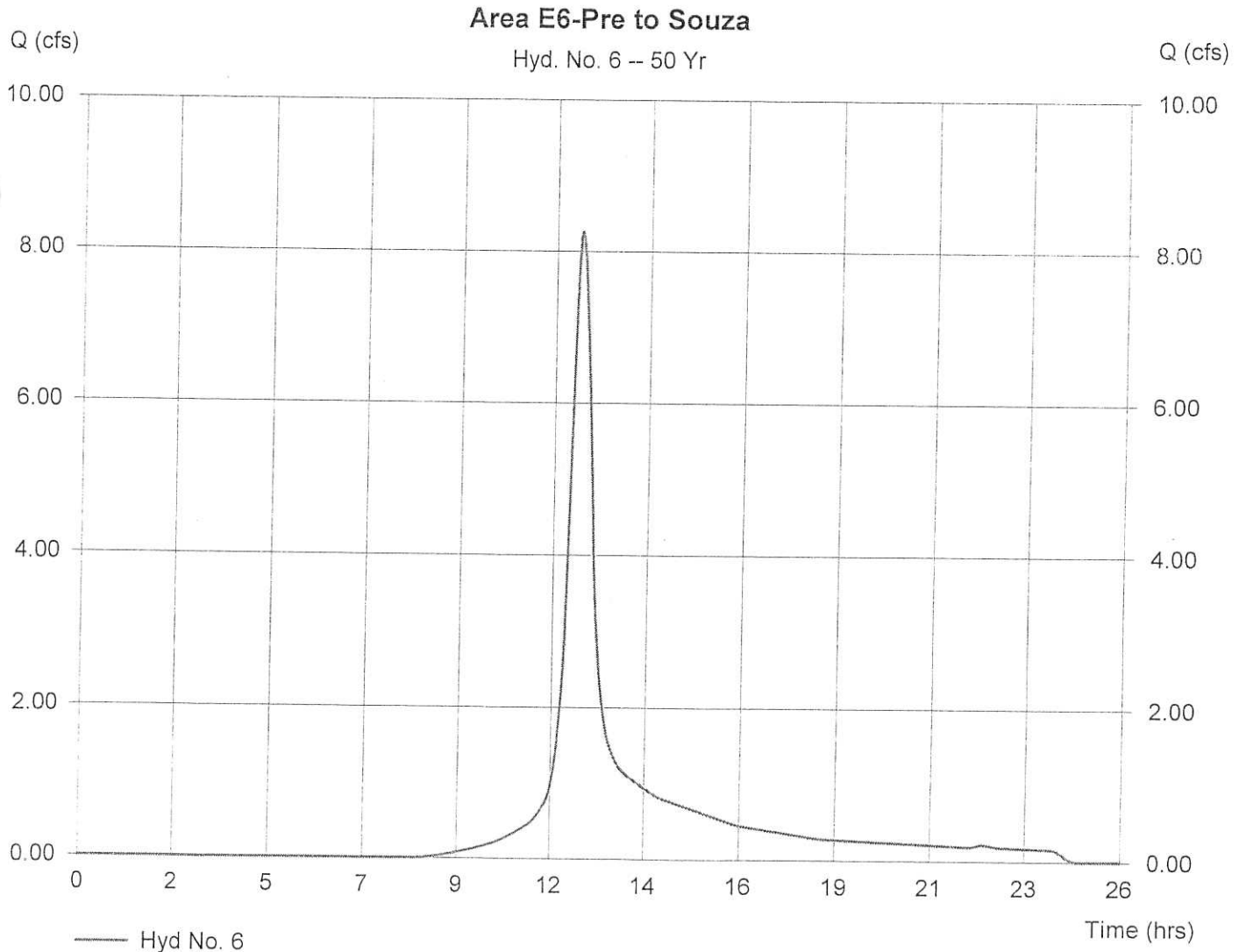
Hyd. No. 6

Area E6-Pre to Souza

Hydrograph type = SCS Runoff
 Storm frequency = 50 yrs
 Drainage area = 3.410 ac
 Basin Slope = 0.0 %
 Tc method = USER
 Total precip. = 6.30 in
 Storm duration = 24 hrs

Peak discharge = 8.260 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 = 40,687 cuft



Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Friday, Jun 12 2009, 10:0 AM

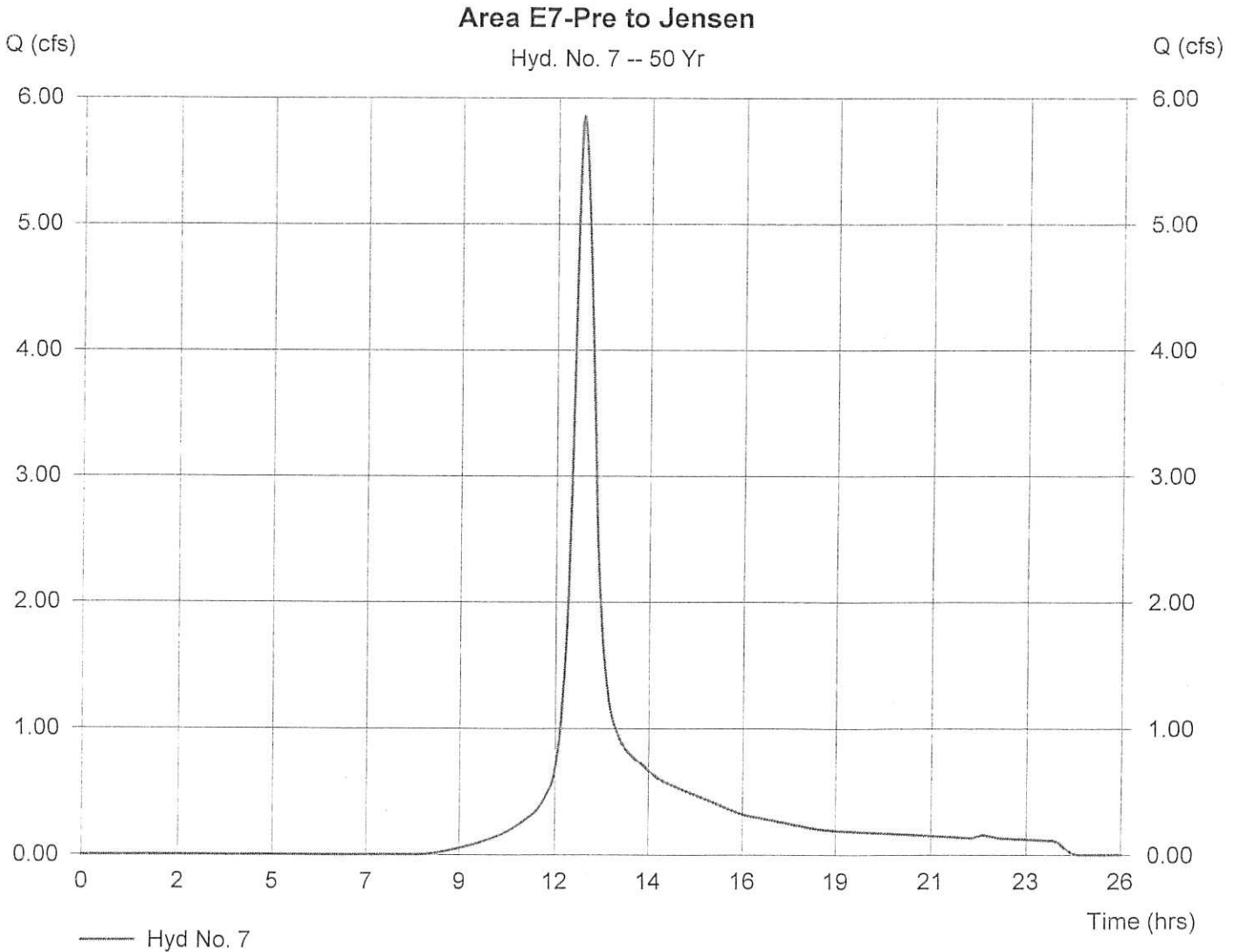
Hyd. No. 7

Area E7-Pre to Jensen

Hydrograph type = SCS Runoff
Storm frequency = 50 yrs
Drainage area = 2.420 ac
Basin Slope = 0.0 %
Tc method = USER
Total precip. = 6.30 in
Storm duration = 24 hrs

Peak discharge = 5.862 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 = 28,875 cuft



Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

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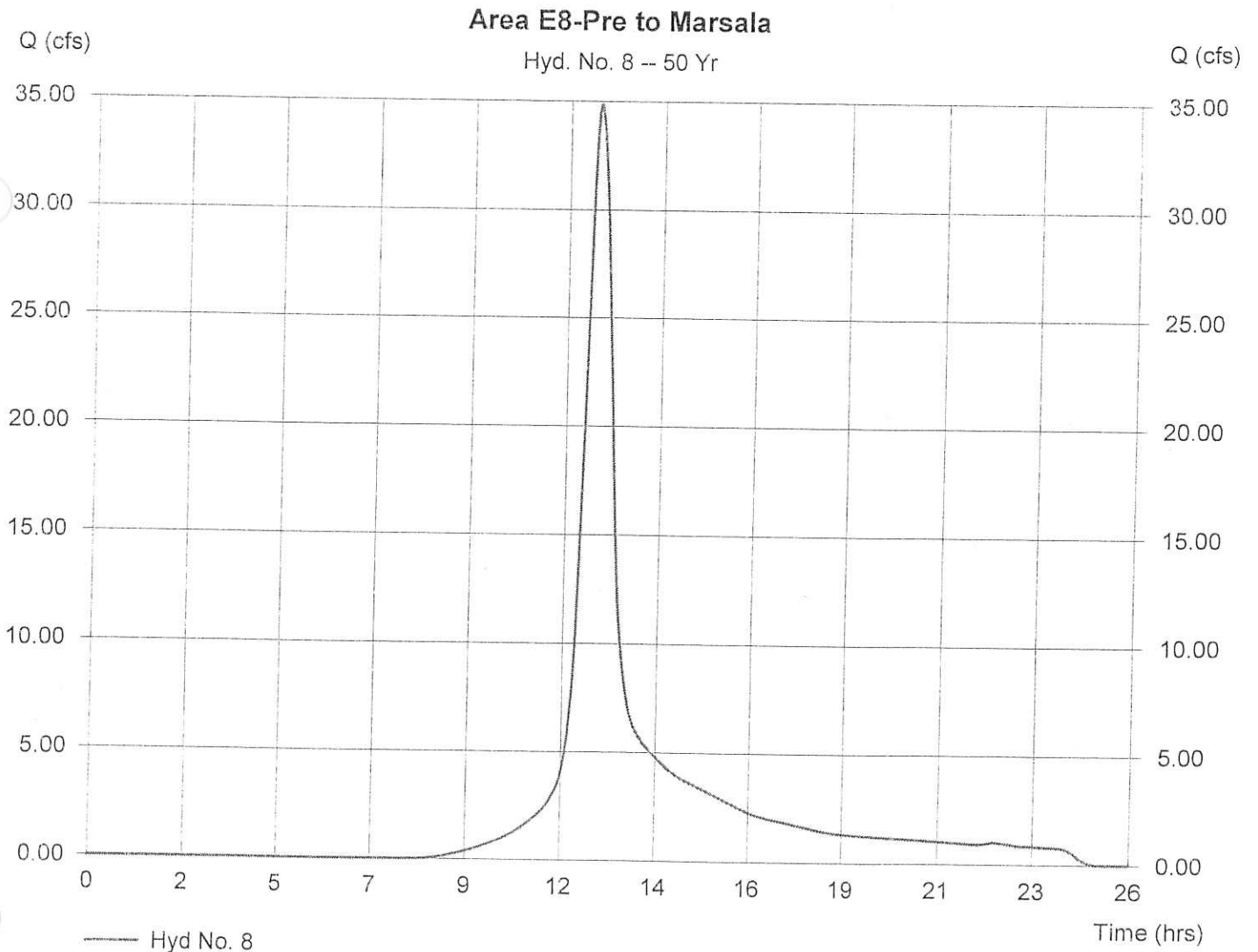
Hyd. No. 8

Area E8-Pre to Marsala

Hydrograph type = SCS Runoff
 Storm frequency = 50 yrs
 Drainage area = 16.130 ac
 Basin Slope = 0.0 %
 Tc method = USER
 Total precip. = 6.30 in
 Storm duration = 24 hrs

Peak discharge = 34.86 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 = 199,057 cuft



Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Friday, Jun 12 2009, 10:0 AM

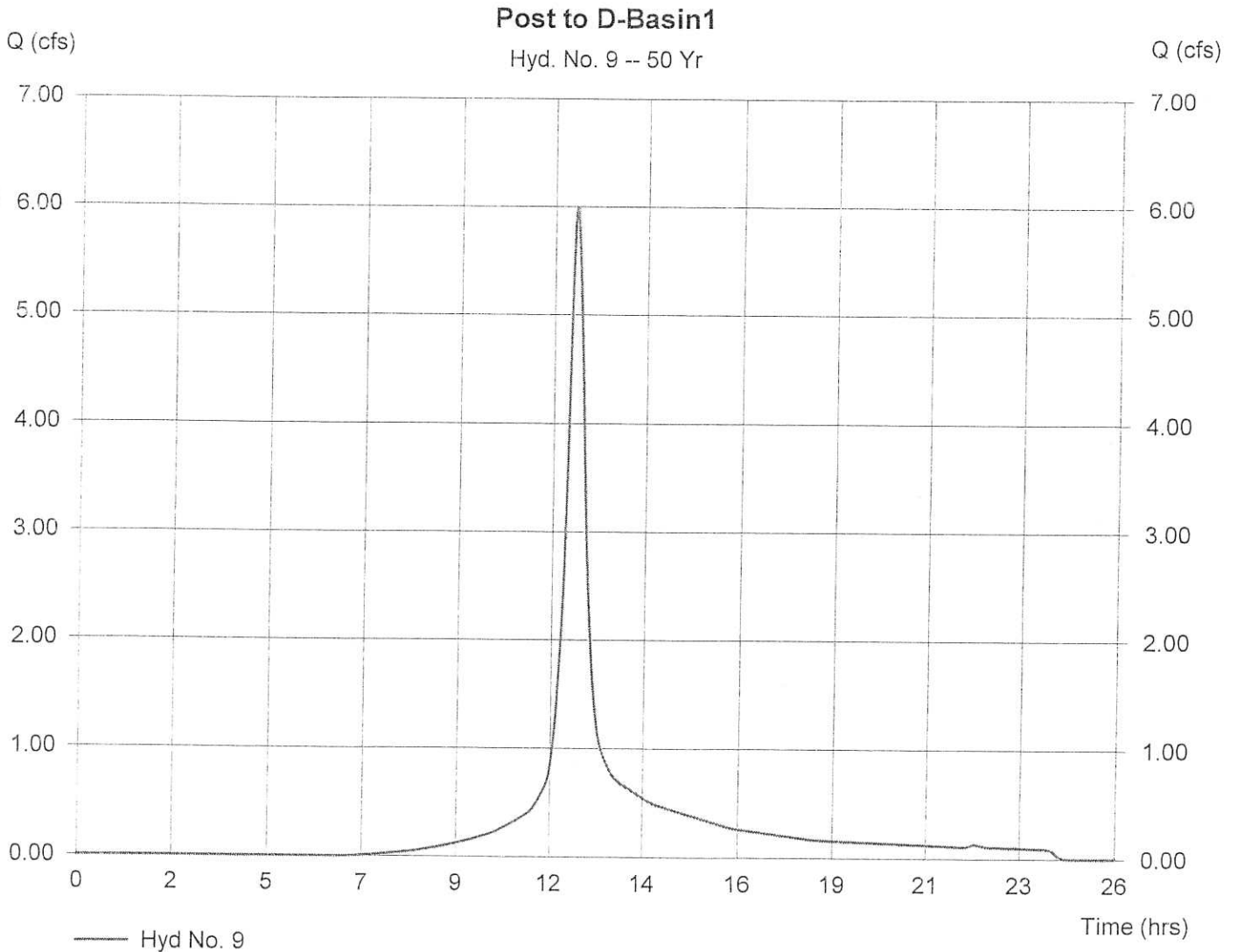
Hyd. No. 9

Post to D-Basin1

Hydrograph type = SCS Runoff
Storm frequency = 50 yrs
Drainage area = 1.810 ac
Basin Slope = 0.0 %
Tc method = USER
Total precip. = 6.30 in
Storm duration = 24 hrs

Peak discharge = 6.003 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 = 26,629 cuft



Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Friday, Jun 12 2009, 10:0 AM

Hyd. No. 10

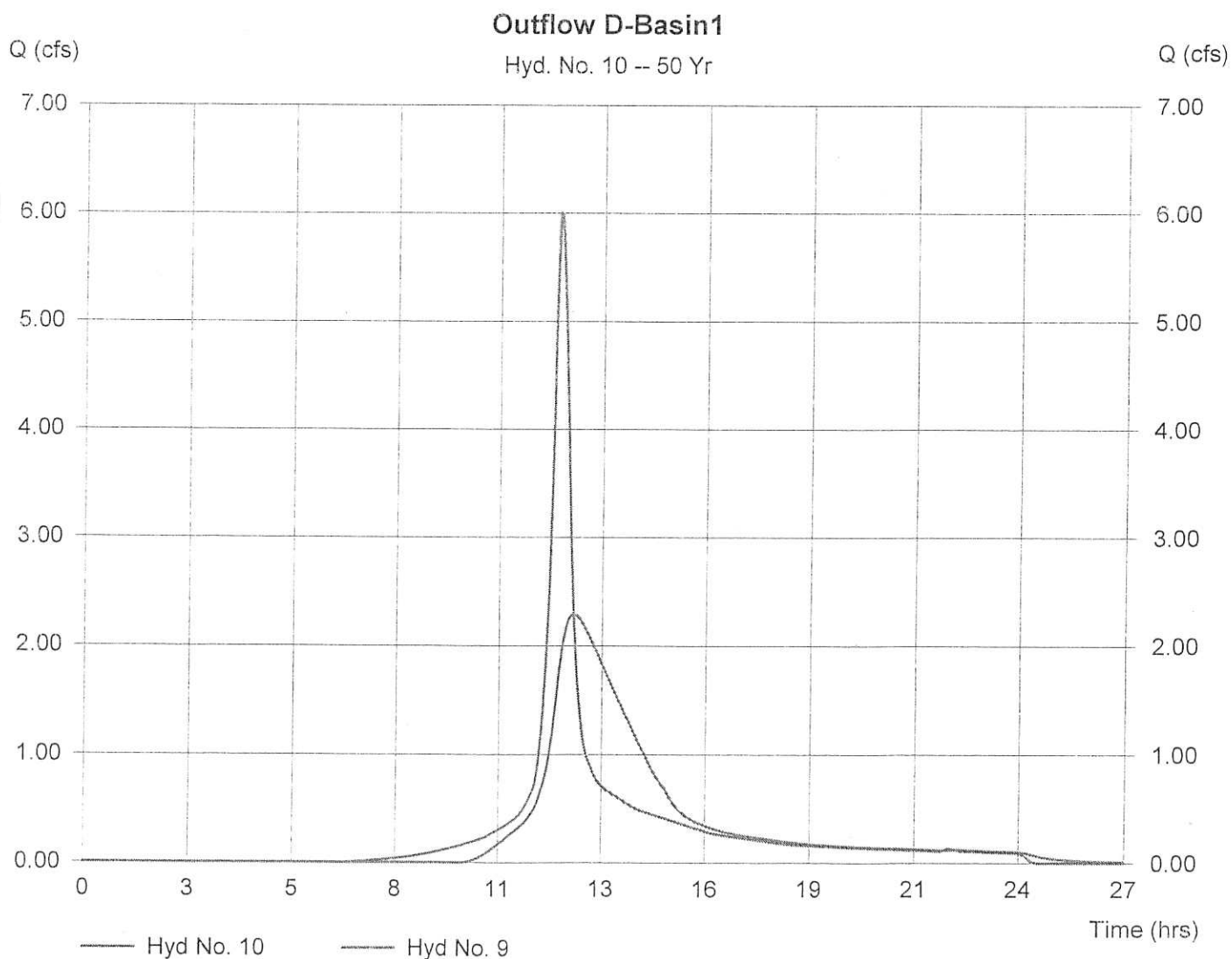
Outflow D-Basin1

Hydrograph type = Reservoir
 Storm frequency = 50 yrs
 Inflow hyd. No. = 9
 Reservoir name = D-Basin1

Peak discharge = 2.290 cfs
 Time interval = 2 min
 Max. Elevation = 317.69 ft
 Max. Storage = 8,445 cuft

Storage Indication method used.

Hydrograph Volume = 25,975 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

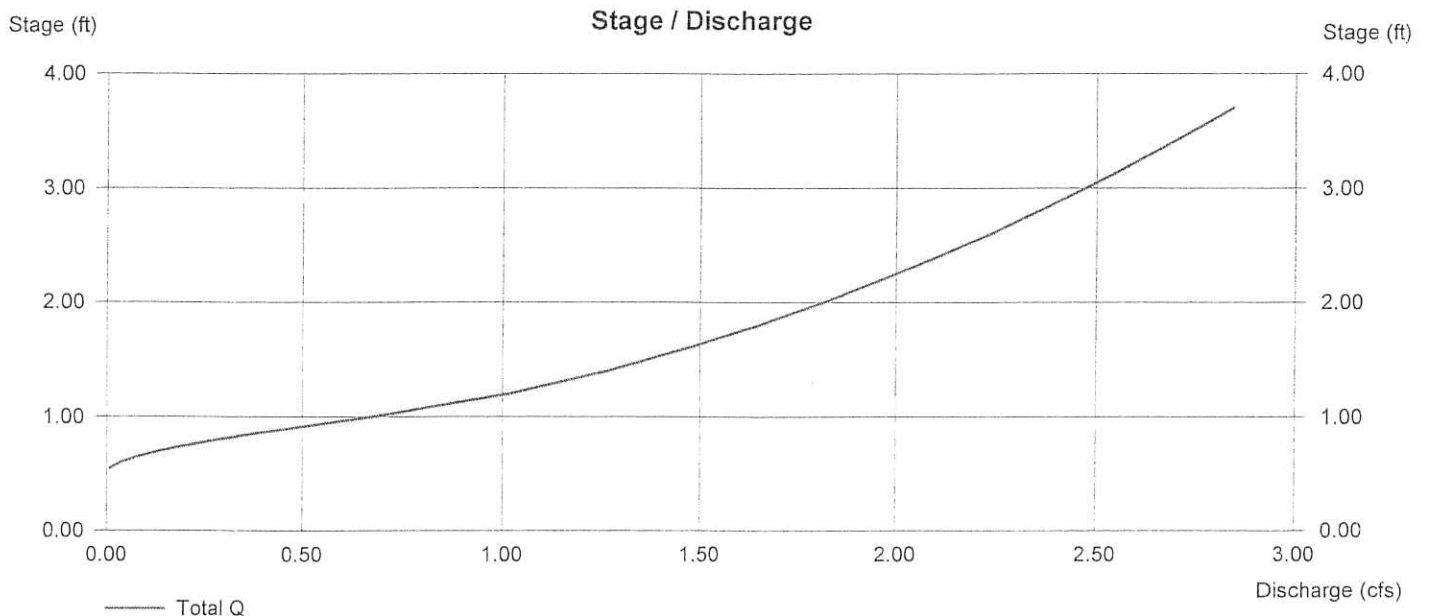
	[A]	[B]	[C]	[D]
Rise (in)	= 8.00	0.00	0.00	0.00
Span (in)	= 8.00	0.00	0.00	0.00
No. Barrels	= 1	0	0	0
Invert El. (ft)	= 315.50	0.00	0.00	0.00
Length (ft)	= 0.00	0.00	0.00	0.00
Slope (%)	= 0.00	0.00	0.00	0.00
N-Value	= .013	.000	.000	.000
Orif. Coeff.	= 0.60	0.00	0.00	0.00
Multi-Stage	= n/a	No	No	No

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

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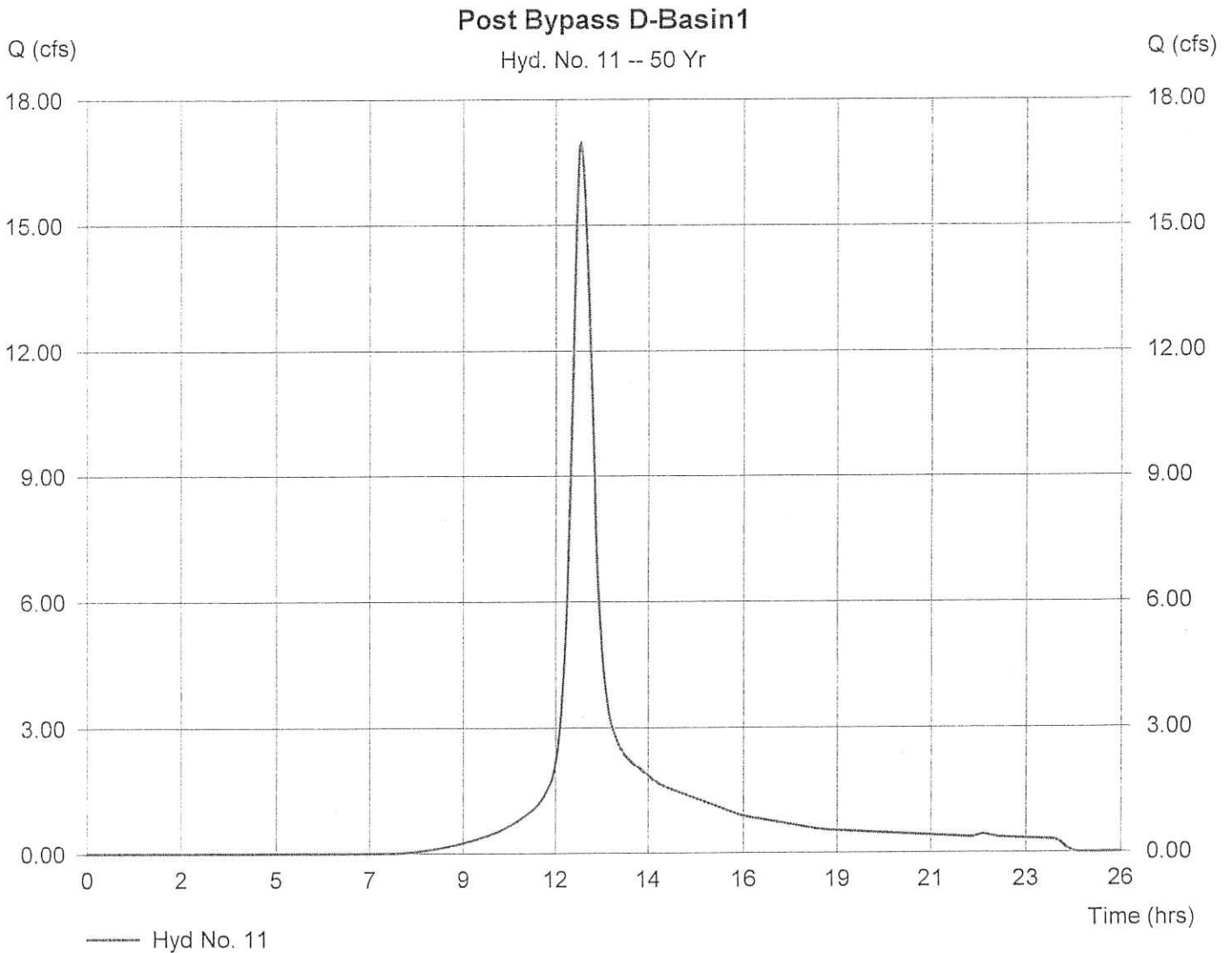
Hyd. No. 11

Post Bypass D-Basin1

Hydrograph type = SCS Runoff
 Storm frequency = 50 yrs
 Drainage area = 6.430 ac
 Basin Slope = 0.0 %
 Tc method = USER
 Total precip. = 6.30 in
 Storm duration = 24 hrs

Peak discharge = 16.99 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 = 83,642 cuft



Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

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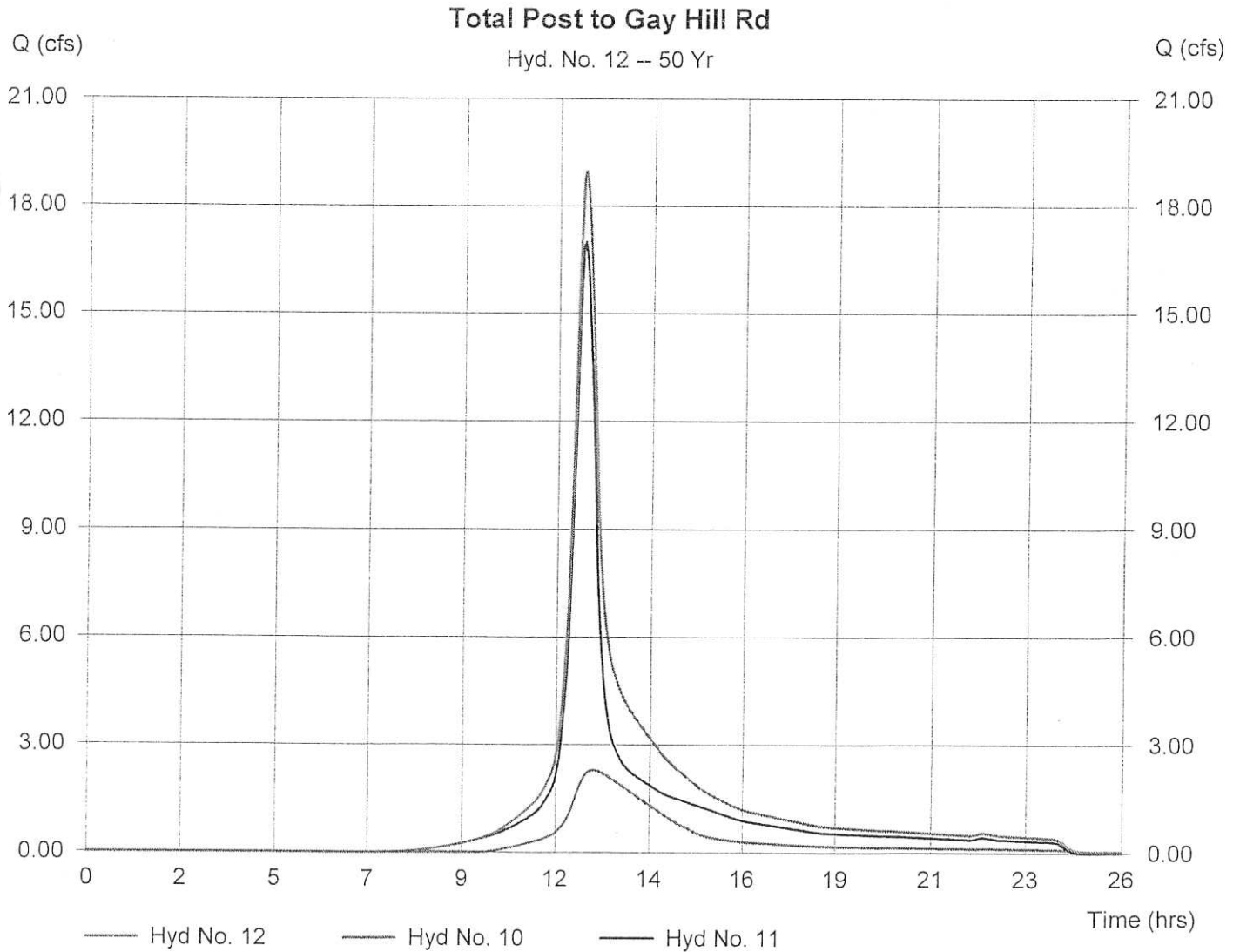
Hyd. No. 12

Total Post to Gay Hill Rd

Hydrograph type = Combine
Storm frequency = 50 yrs
Inflow hyds. = 10, 11

Peak discharge = 18.98 cfs
Time interval = 2 min

Hydrograph Volume = 109,616 cuft



Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Friday, Jun 12 2009, 10:0 AM

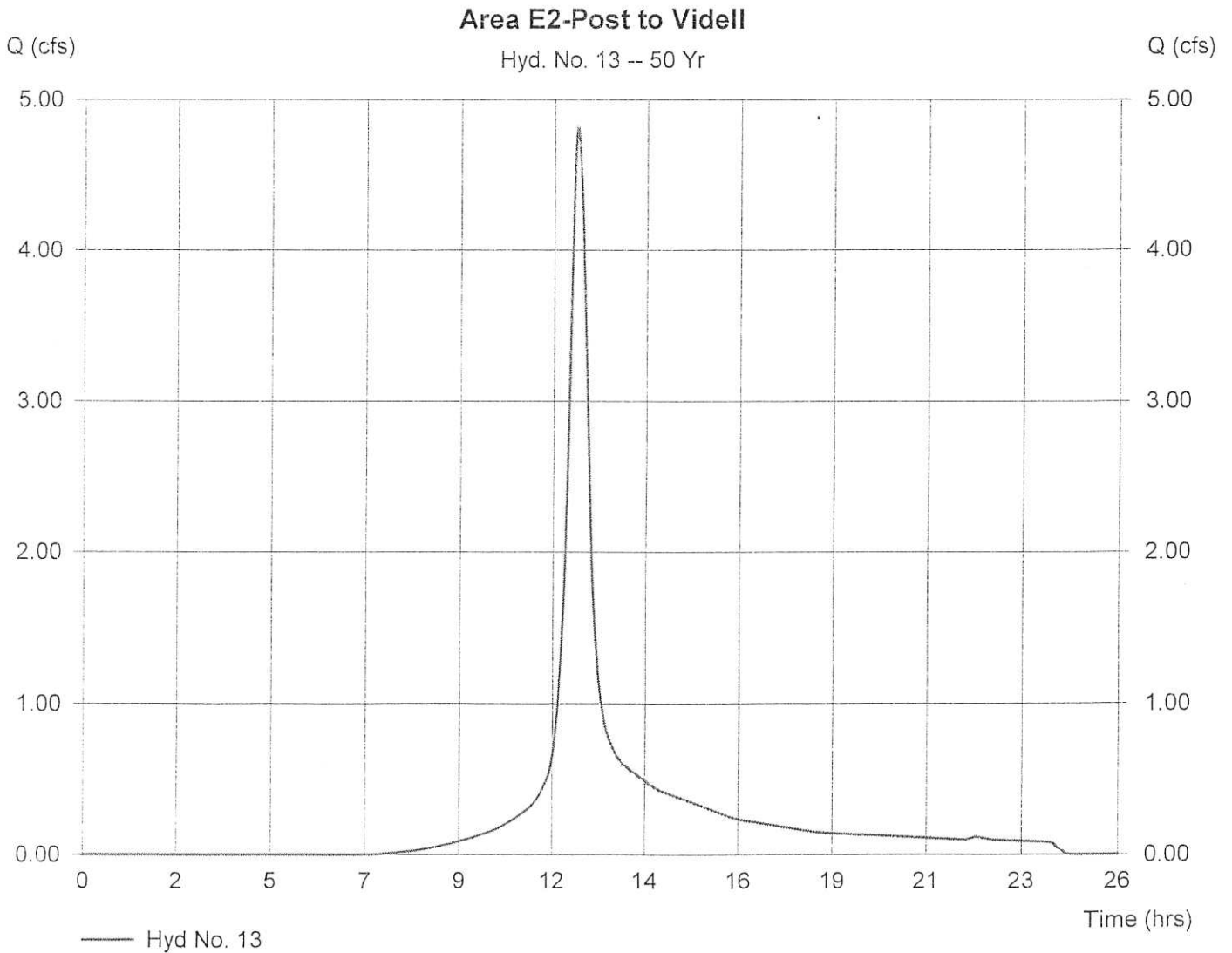
Hyd. No. 13

Area E2-Post to Videll

Hydrograph type = SCS Runoff
 Storm frequency = 50 yrs
 Drainage area = 1.610 ac
 Basin Slope = 0.0 %
 Tc method = USER
 Total precip. = 6.30 in
 Storm duration = 24 hrs

Peak discharge = 4.828 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 = 22,873 cuft



Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

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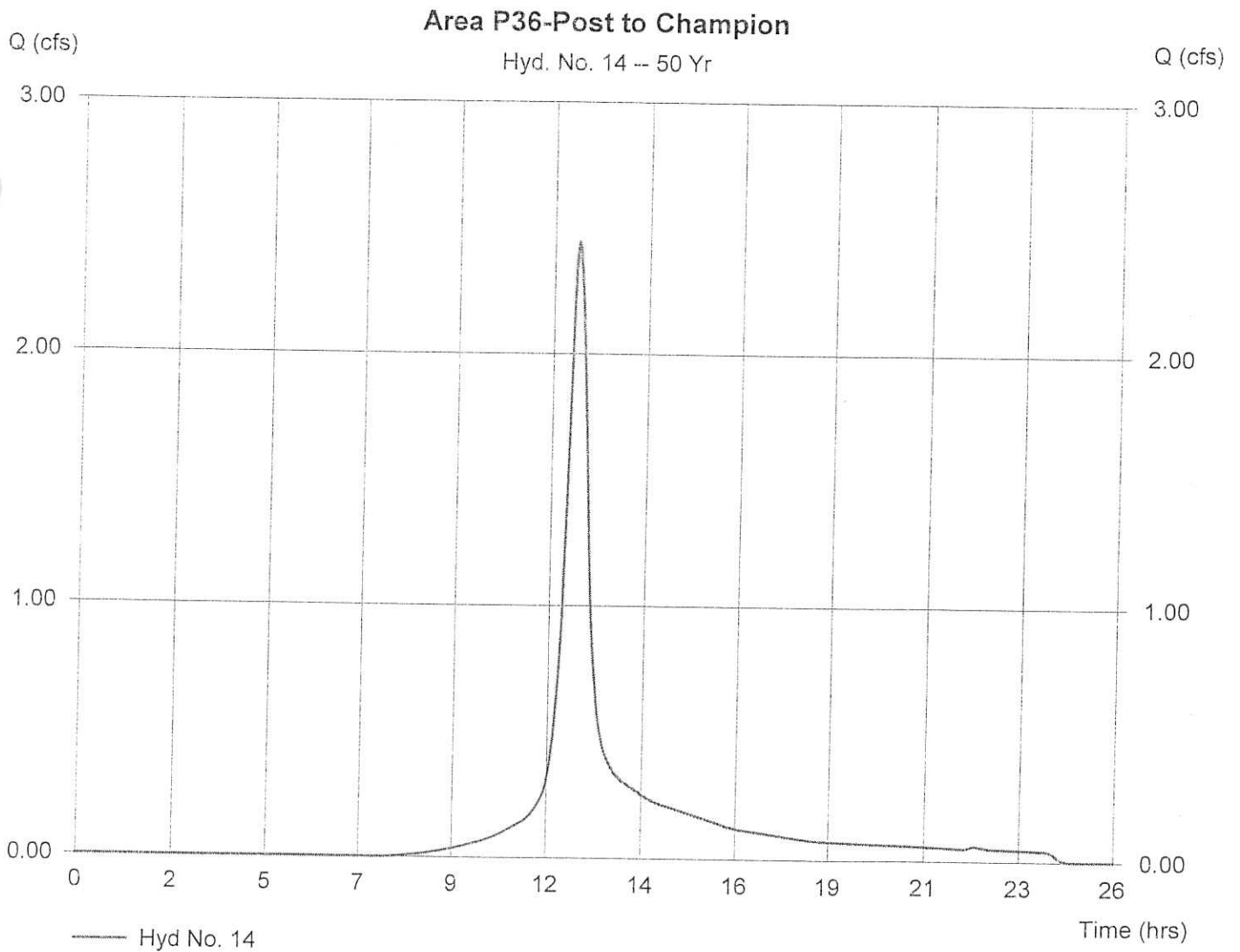
Hyd. No. 14

Area P36-Post to Champion

Hydrograph type = SCS Runoff
Storm frequency = 50 yrs
Drainage area = 0.860 ac
Basin Slope = 0.0 %
Tc method = USER
Total precip. = 6.30 in
Storm duration = 24 hrs

Peak discharge = 2.445 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 = 11,567 cuft



Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Friday, Jun 12 2009, 10:0 AM

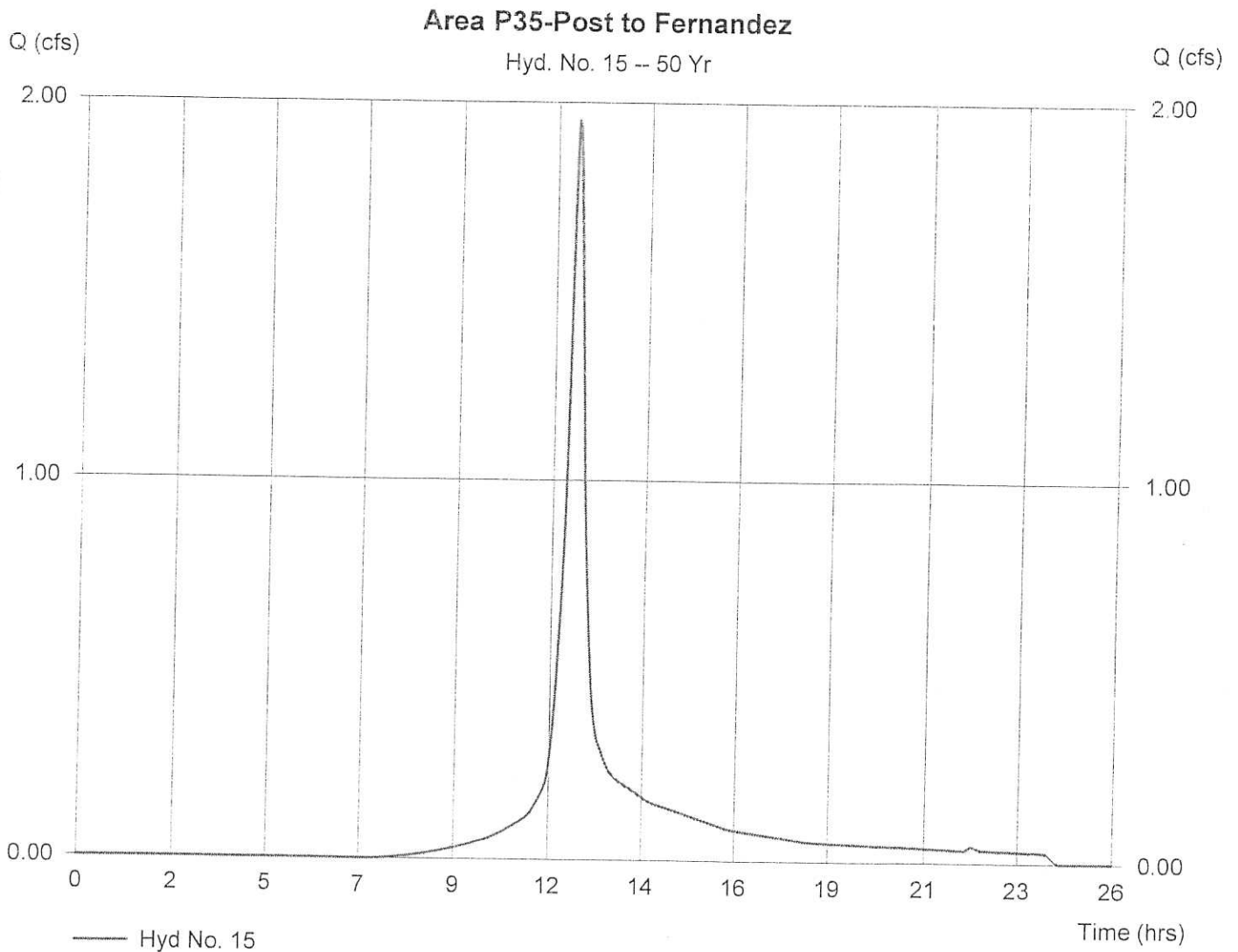
Hyd. No. 15

Area P35-Post to Fernandez

Hydrograph type = SCS Runoff
Storm frequency = 50 yrs
Drainage area = 0.600 ac
Basin Slope = 0.0 %
Tc method = USER
Total precip. = 6.30 in
Storm duration = 24 hrs

Peak discharge = 1.952 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 = 7,947 cuft



Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Friday, Jun 12 2009, 10:0 AM

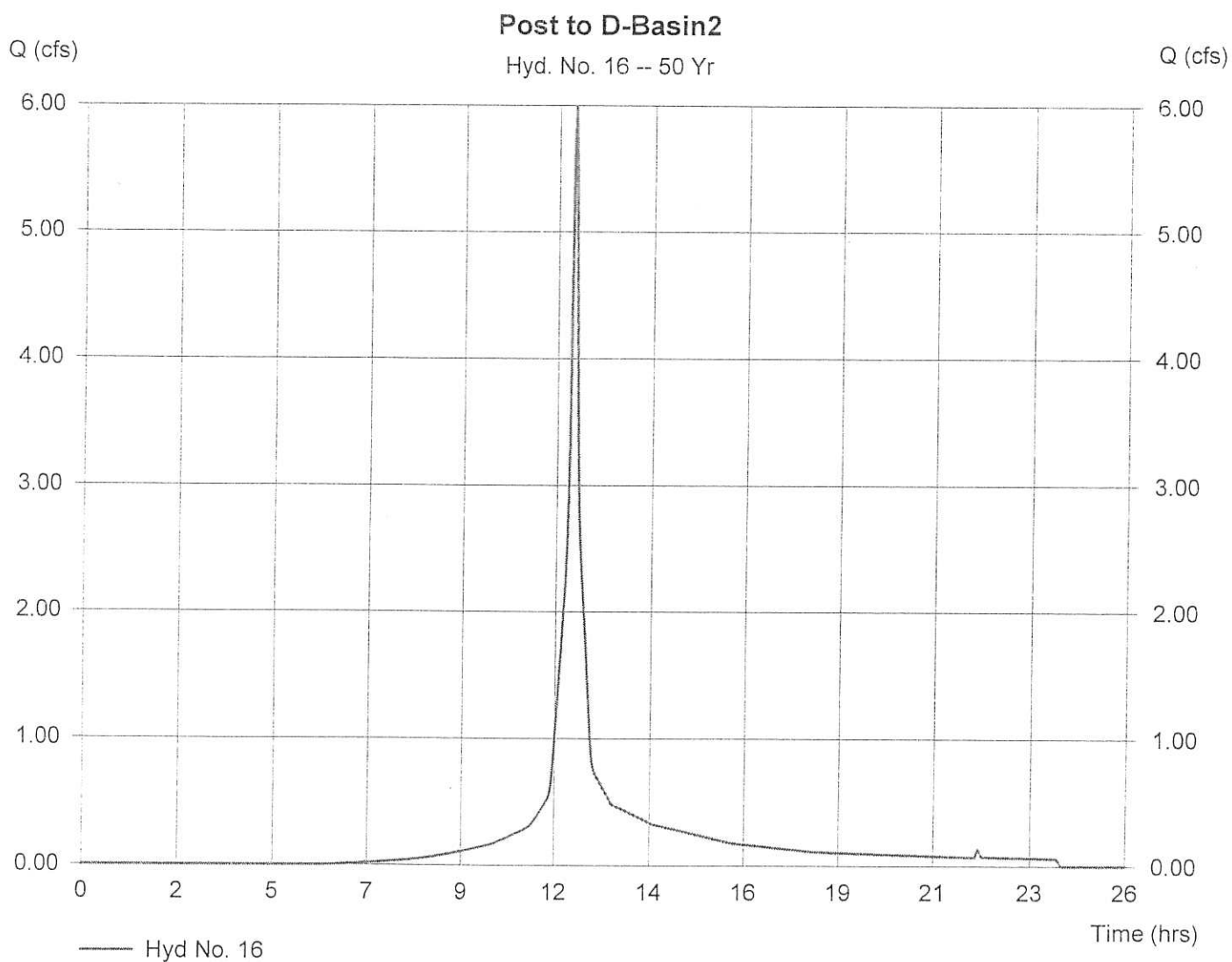
Hyd. No. 16

Post to D-Basin2

Hydrograph type = SCS Runoff
 Storm frequency = 50 yrs
 Drainage area = 1.250 ac
 Basin Slope = 0.0 %
 Tc method = USER
 Total precip. = 6.30 in
 Storm duration = 24 hrs

Peak discharge = 5.988 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 = 18,139 cuft



Hydrograph Plot

Hydraflow Hydrographs by Intellisolve

Friday, Jun 12 2009, 10:0 AM

Hyd. No. 17

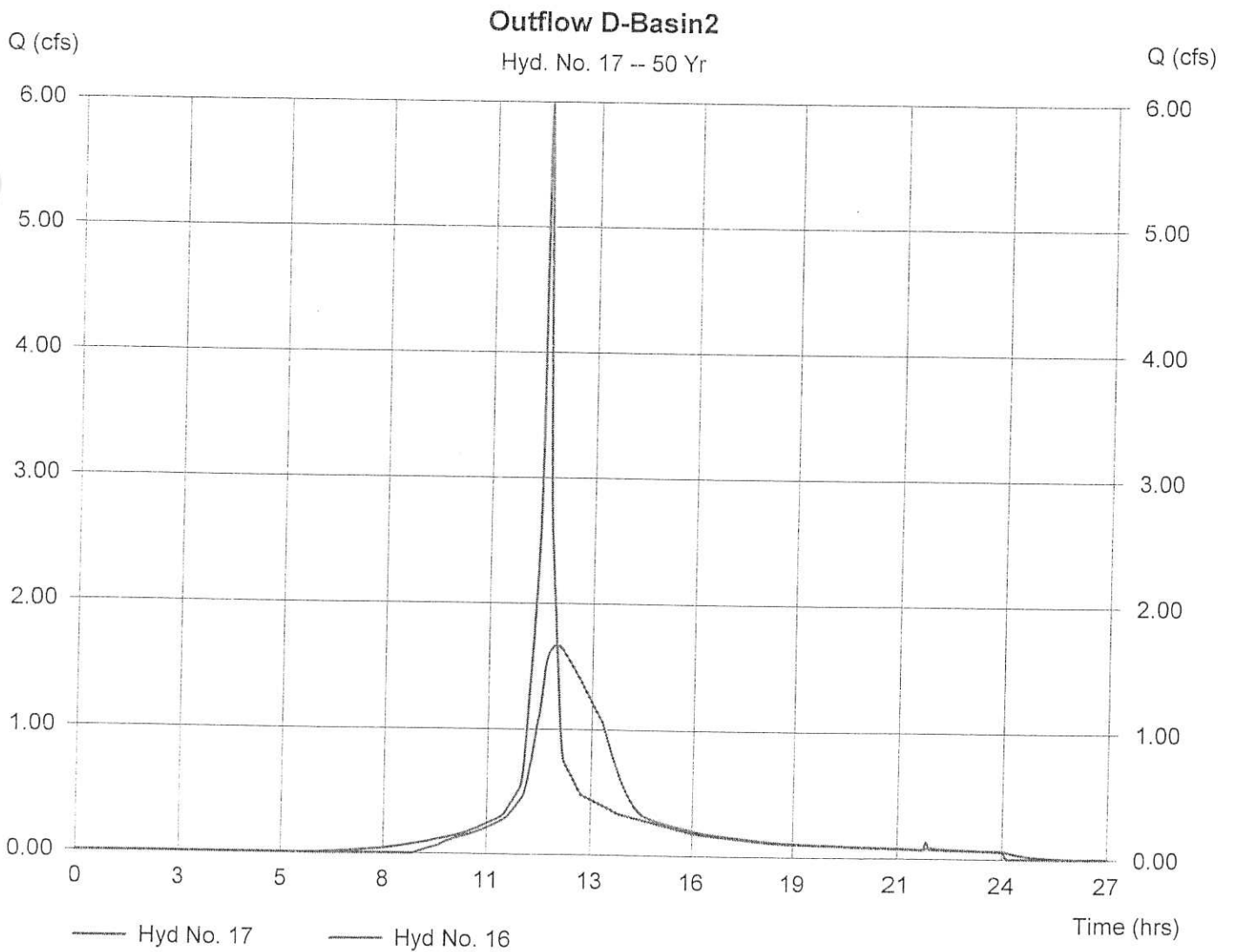
Outflow D-Basin2

Hydrograph type = Reservoir
 Storm frequency = 50 yrs
 Inflow hyd. No. = 16
 Reservoir name = D-Basin2

Peak discharge = 1.668 cfs
 Time interval = 2 min
 Max. Elevation = 335.86 ft
 Max. Storage = 5,073 cuft

Storage Indication method used.

Hydrograph Volume = 17,854 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

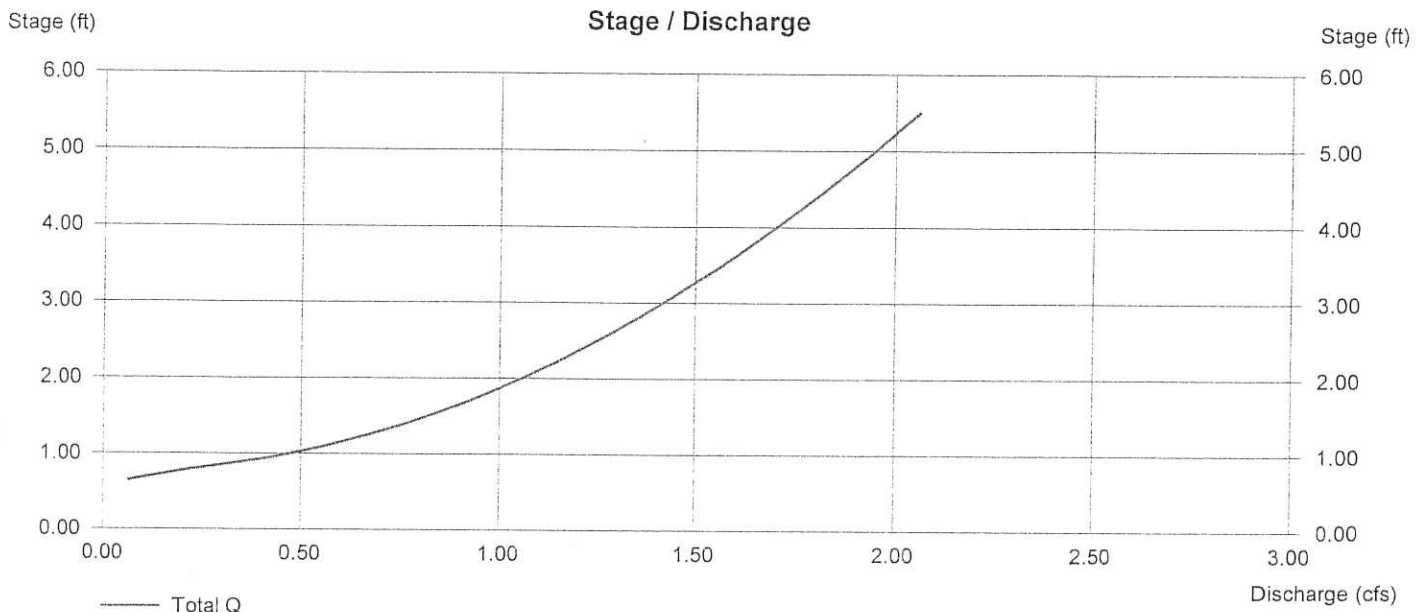
	[A]	[B]	[C]	[D]
Rise (in)	= 6.00	0.00	0.00	0.00
Span (in)	= 6.00	0.00	0.00	0.00
No. Barrels	= 1	0	0	0
Invert El. (ft)	= 332.50	0.00	0.00	0.00
Length (ft)	= 0.00	0.00	0.00	0.00
Slope (%)	= 0.00	0.00	0.00	0.00
N-Value	= .013	.000	.000	.000
Orif. Coeff.	= 0.60	0.00	0.00	0.00
Multi-Stage	= n/a	No	No	No

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

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Hyd. No. 18

Post Bypass D-Basin2

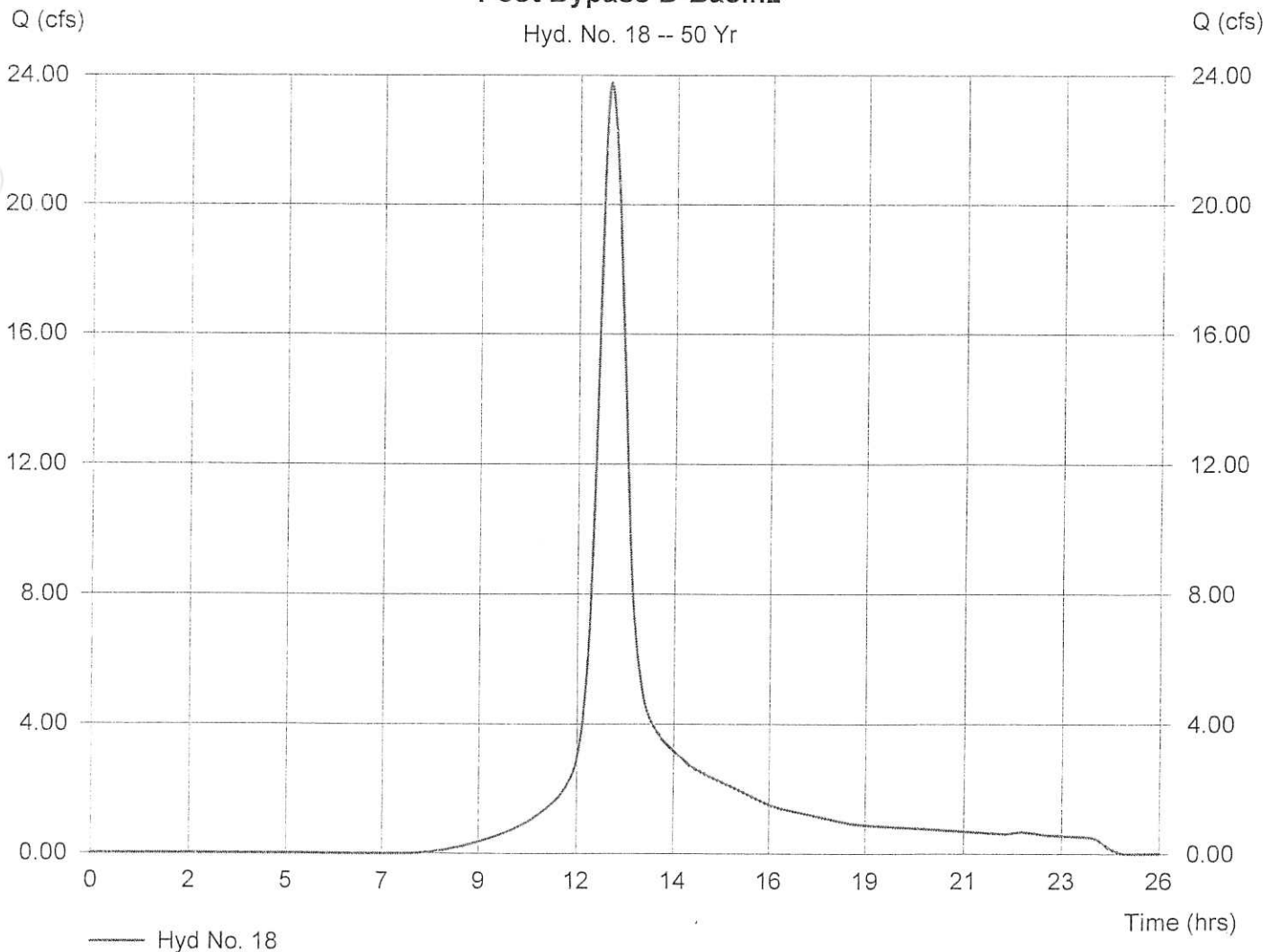
Hydrograph type = SCS Runoff
 Storm frequency = 50 yrs
 Drainage area = 10.380 ac
 Basin Slope = 0.0 %
 Tc method = USER
 Total precip. = 6.30 in
 Storm duration = 24 hrs

Peak discharge = 23.77 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 = 135,608 cuft

Post Bypass D-Basin2

Hyd. No. 18 -- 50 Yr



Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

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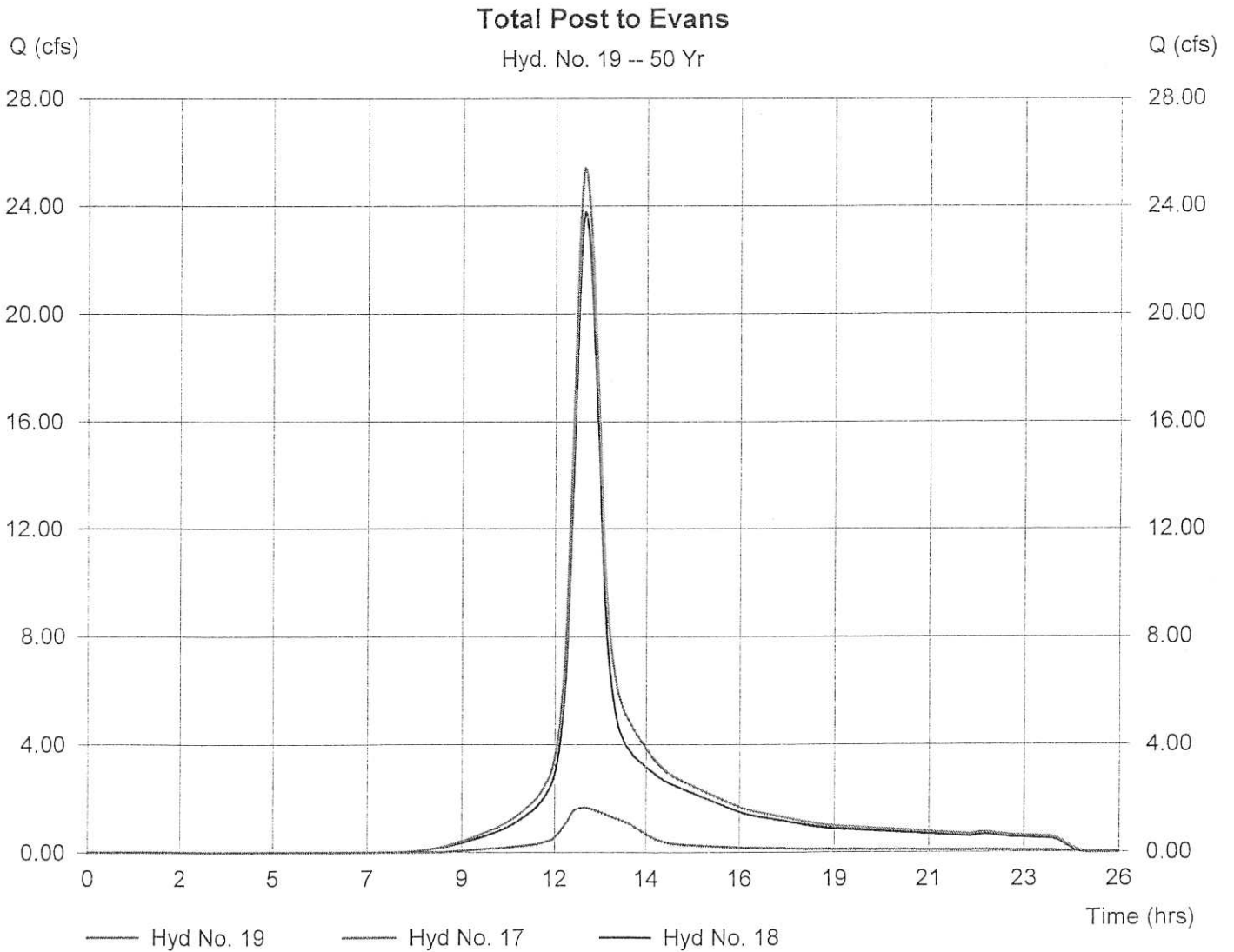
Hyd. No. 19

Total Post to Evans

Hydrograph type = Combine
Storm frequency = 50 yrs
Inflow hyds. = 17, 18

Peak discharge = 25.44 cfs
Time interval = 2 min

Hydrograph Volume = 153,462 cuft



Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

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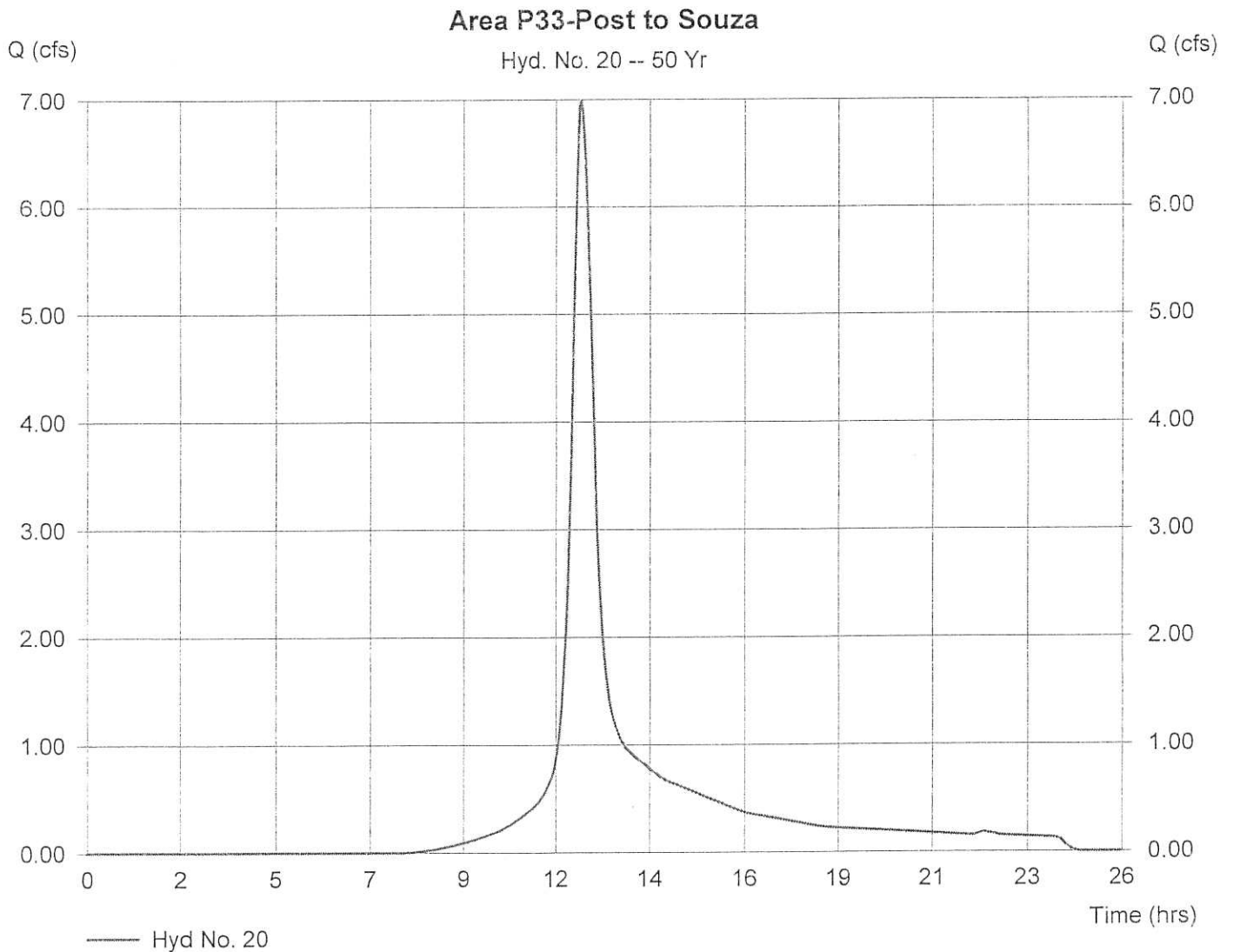
Hyd. No. 20

Area P33-Post to Souza

Hydrograph type = SCS Runoff
 Storm frequency = 50 yrs
 Drainage area = 2.720 ac
 Basin Slope = 0.0 %
 Tc method = USER
 Total precip. = 6.30 in
 Storm duration = 24 hrs

Peak discharge = 6.989 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 = 34,398 cuft



Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

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Hyd. No. 21

Area P32-Post to Jensen

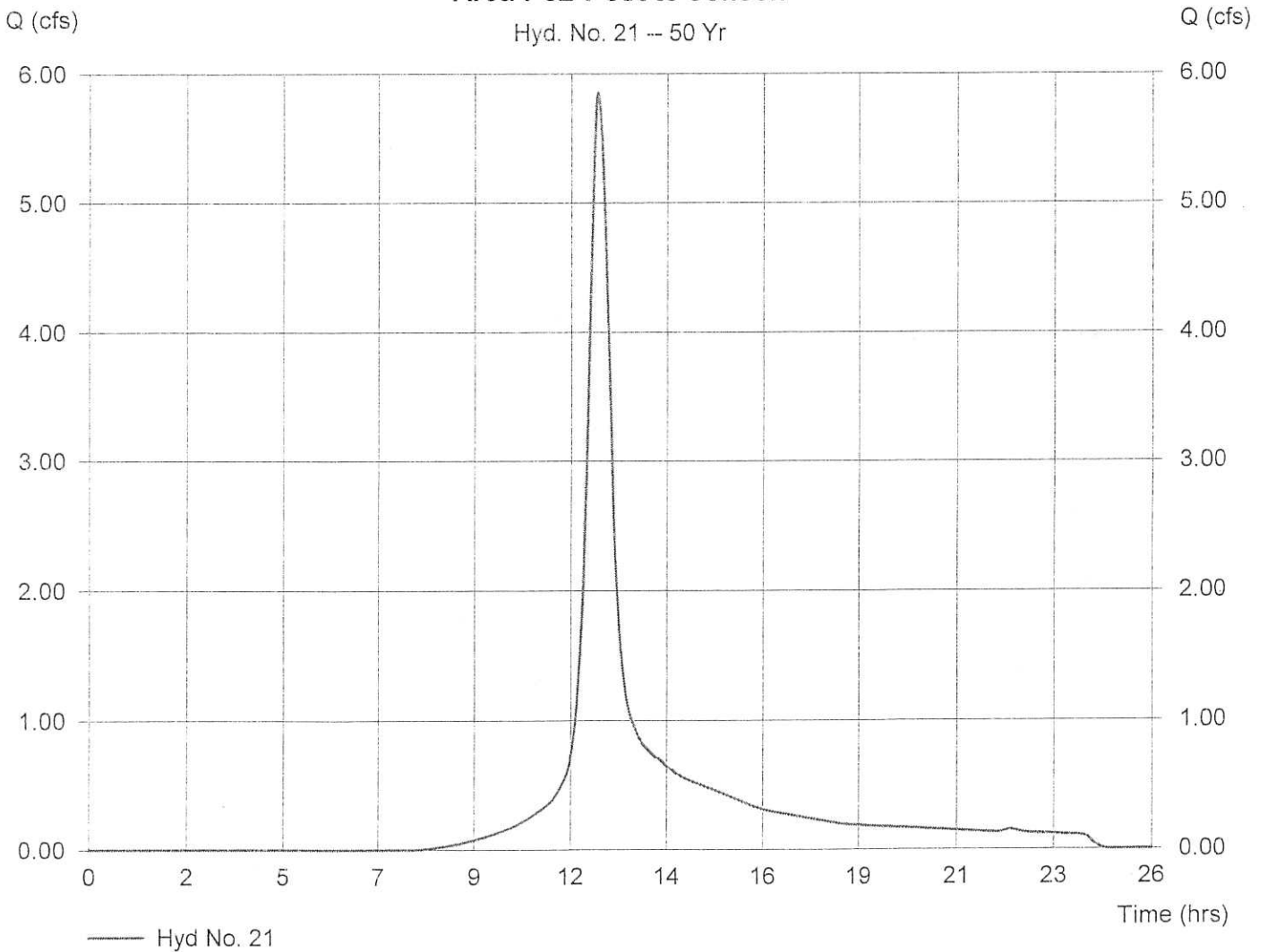
Hydrograph type = SCS Runoff
 Storm frequency = 50 yrs
 Drainage area = 2.280 ac
 Basin Slope = 0.0 %
 Tc method = USER
 Total precip. = 6.30 in
 Storm duration = 24 hrs

Peak discharge = 5.858 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 = 28,834 cuft

Area P32-Post to Jensen

Hyd. No. 21 -- 50 Yr



Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

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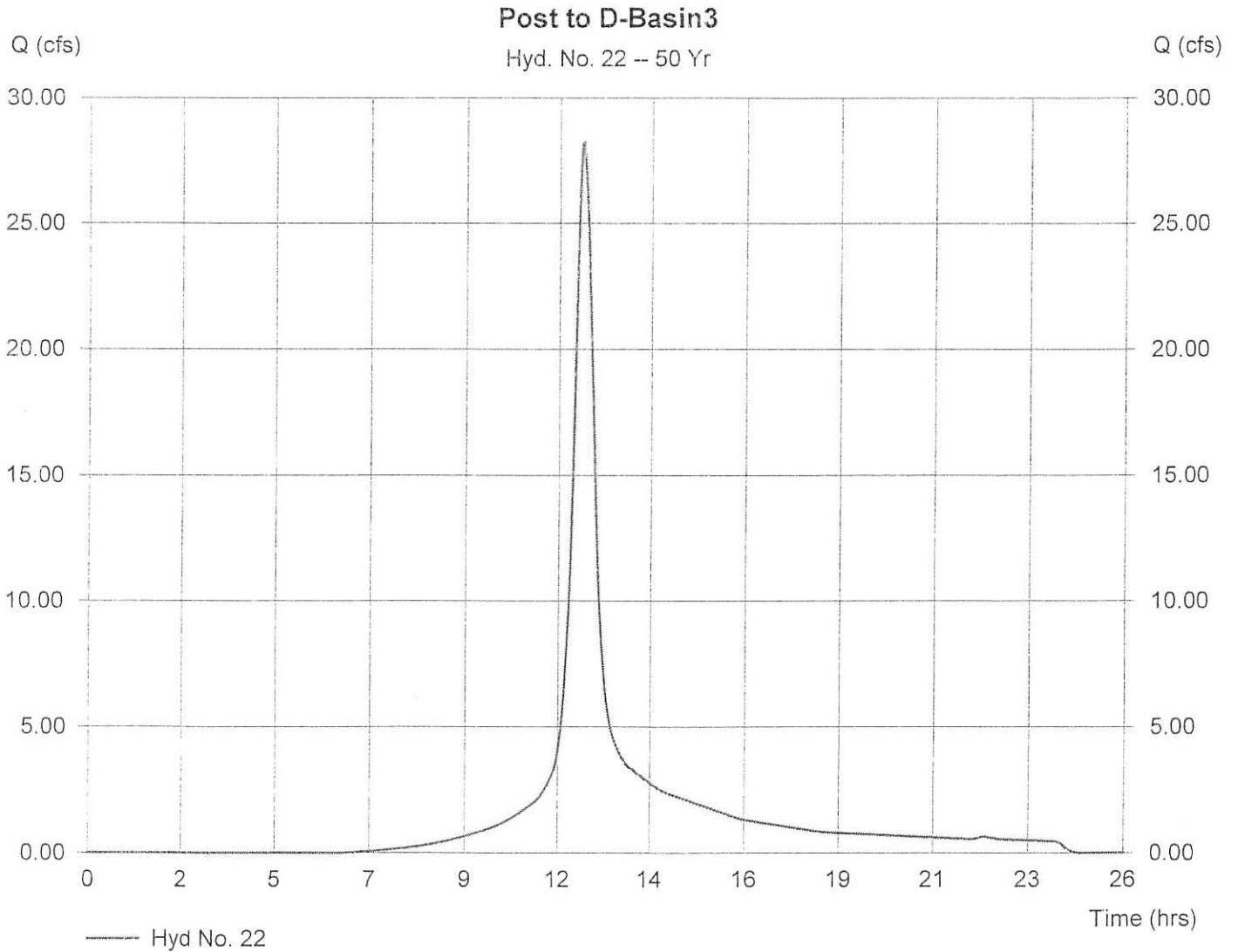
Hyd. No. 22

Post to D-Basin3

Hydrograph type = SCS Runoff
 Storm frequency = 50 yrs
 Drainage area = 8.750 ac
 Basin Slope = 0.0 %
 Tc method = USER
 Total precip. = 6.30 in
 Storm duration = 24 hrs

Peak discharge = 28.23 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 = 134,430 cuft



Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Friday, Jun 12 2009, 10:0 AM

Hyd. No. 23

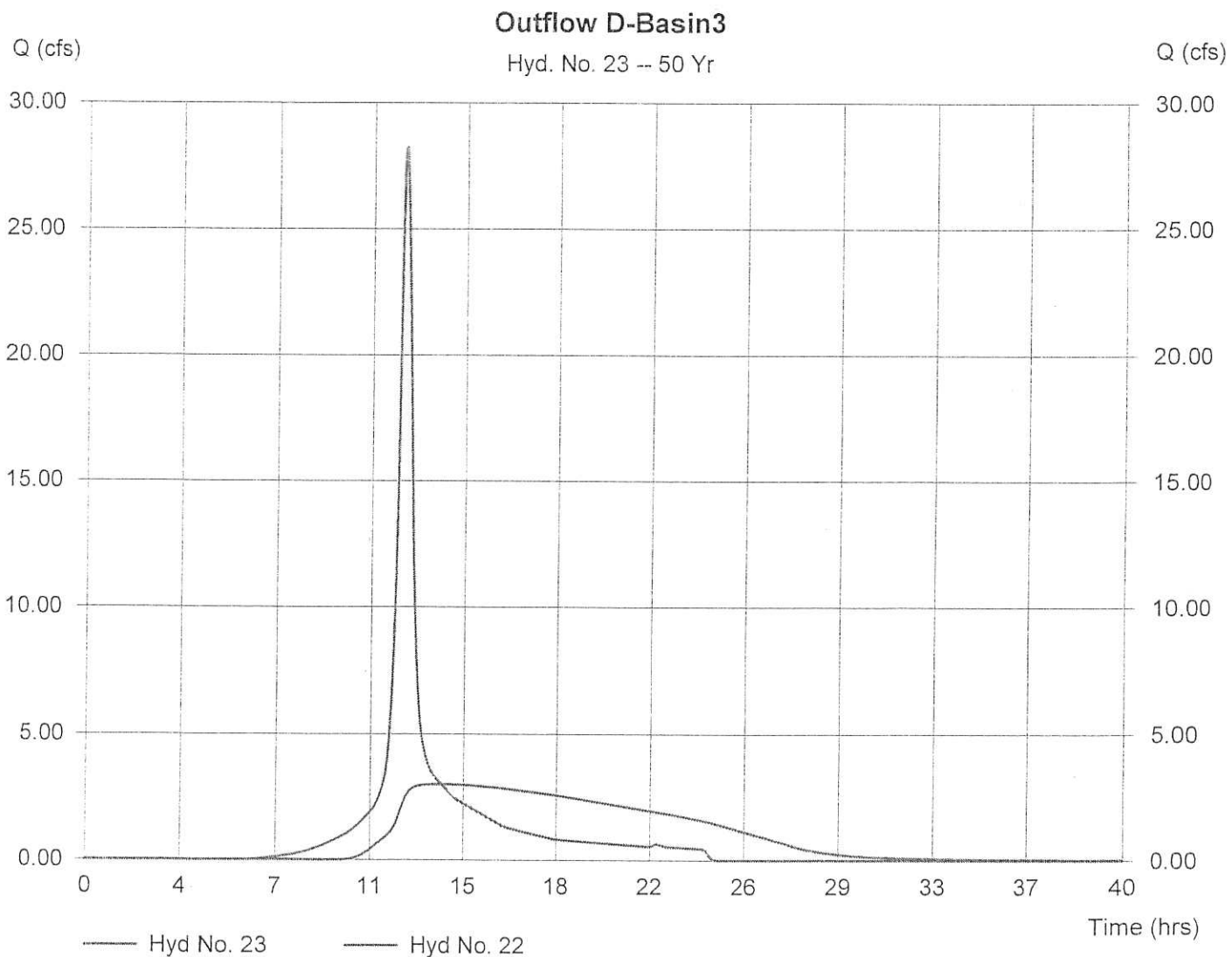
Outflow D-Basin3

Hydrograph type = Reservoir
 Storm frequency = 50 yrs
 Inflow hyd. No. = 22
 Reservoir name = D-Basin3

Peak discharge = 3.001 cfs
 Time interval = 2 min
 Max. Elevation = 340.02 ft
 Max. Storage = 73,700 cuft

Storage Indication method used.

Hydrograph Volume = 130,350 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

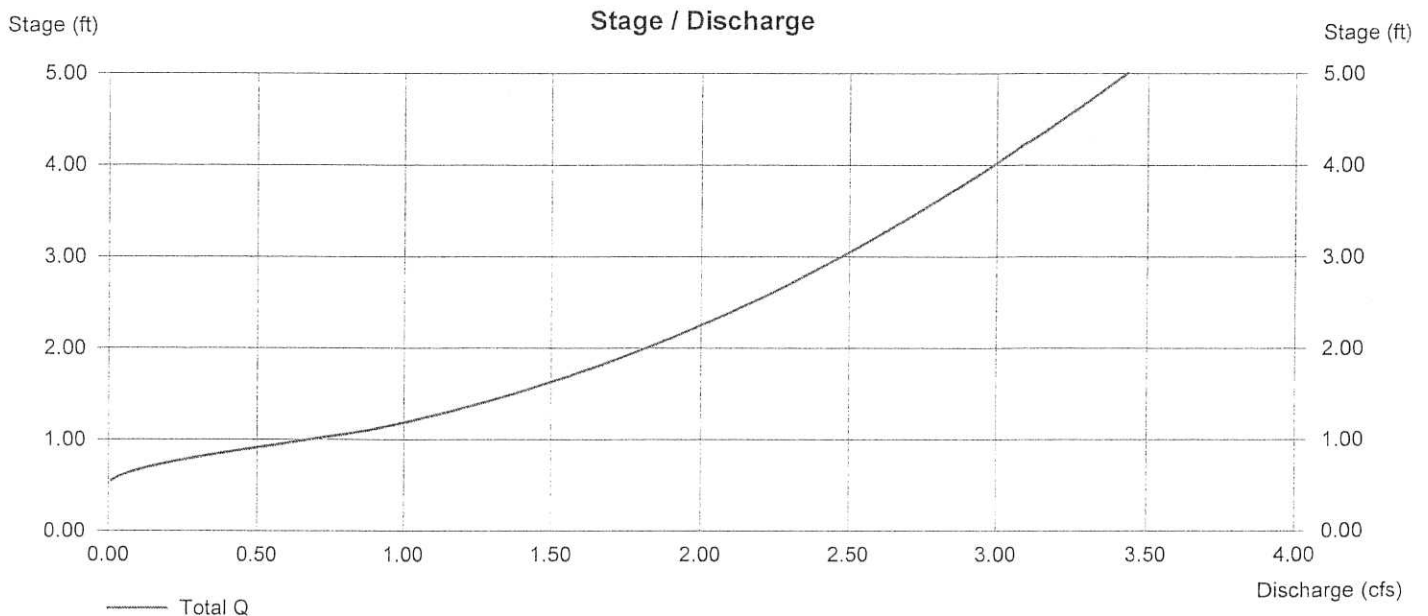
	[A]	[B]	[C]	[D]
Rise (in)	= 8.00	0.00	0.00	0.00
Span (in)	= 8.00	0.00	0.00	0.00
No. Barrels	= 1	0	0	0
Invert El. (ft)	= 336.50	0.00	0.00	0.00
Length (ft)	= 0.00	0.00	0.00	0.00
Slope (%)	= 0.00	0.00	0.00	0.00
N-Value	= .013	.000	.000	.000
Orif. Coeff.	= 0.60	0.00	0.00	0.00
Multi-Stage	= n/a	No	No	No

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

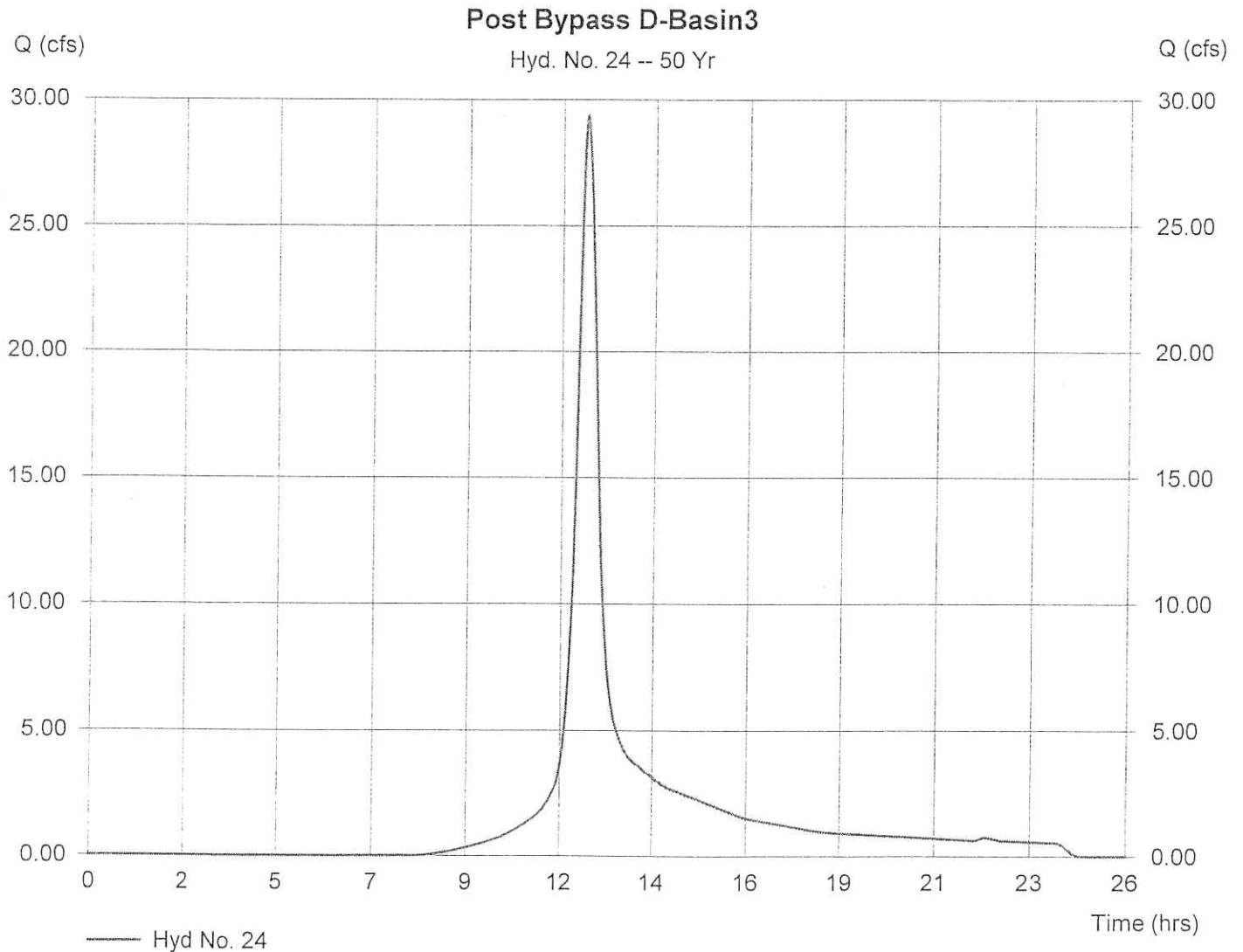
Hyd. No. 24

Post Bypass D-Basin3

Hydrograph type = SCS Runoff
 Storm frequency = 50 yrs
 Drainage area = 10.940 ac
 Basin Slope = 0.0 %
 Tc method = USER
 Total precip. = 6.30 in
 Storm duration = 24 hrs

Peak discharge = 29.39 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 = 138,999 cuft



Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Friday, Jun 12 2009, 10:0 AM

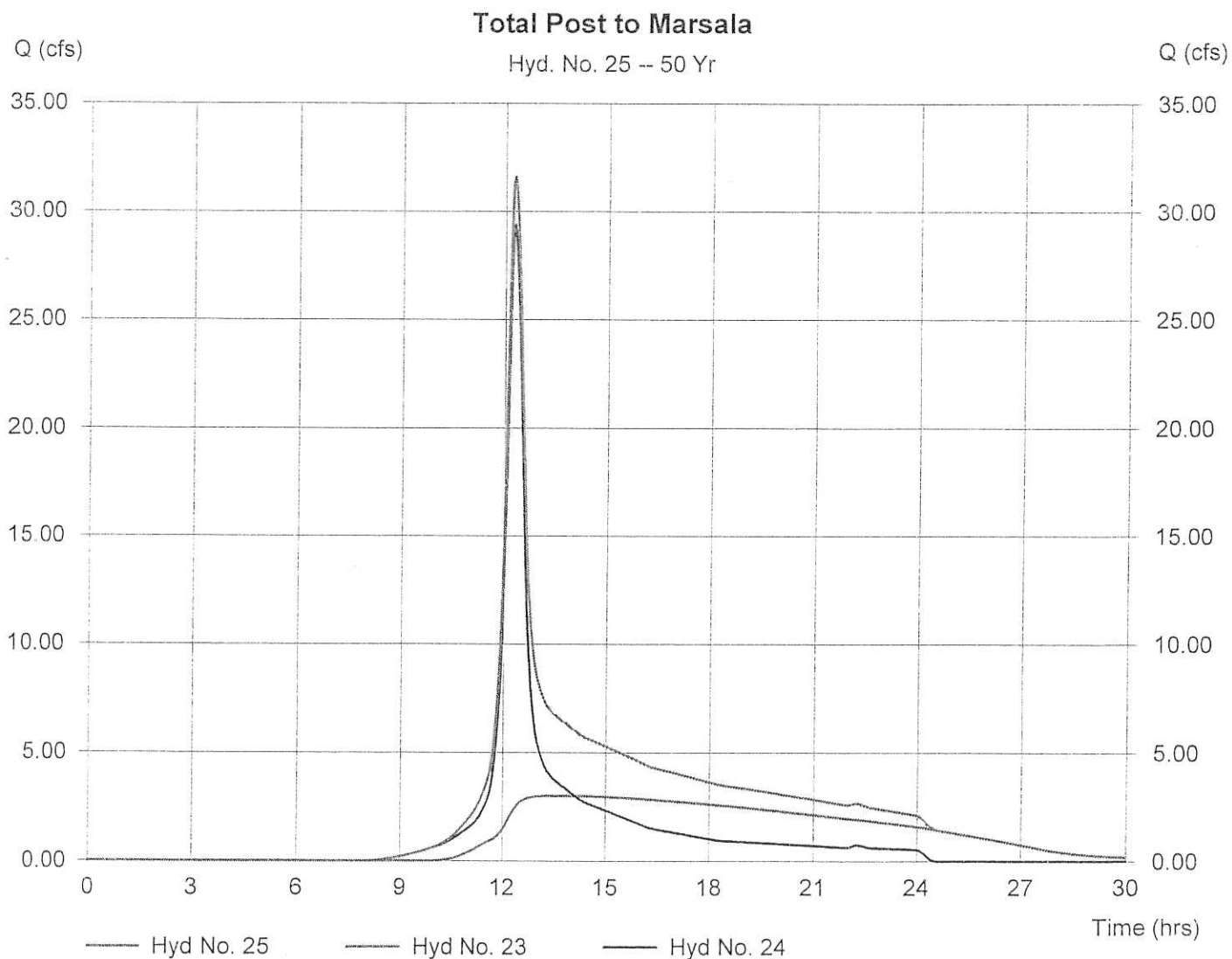
Hyd. No. 25

Total Post to Marsala

Hydrograph type = Combine
 Storm frequency = 50 yrs
 Inflow hyds. = 23, 24

Peak discharge = 31.61 cfs
 Time interval = 2 min

Hydrograph Volume = 269,348 cuft



Hydrograph Summary Report

i. j.	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	25.20	2	738	124,249	---	-----	-----	Area E1-Pre to Gay Hill Rd	
2	SCS Runoff	7.002	6	738	36,350	---	-----	-----	Area E2-Pre to Videll	
3	SCS Runoff	2.985	2	736	14,116	---	-----	-----	Area E3- Pre to Champion	
4	SCS Runoff	2.413	2	730	9,821	---	-----	-----	Area E4-Pre to Fernandez	
5	SCS Runoff	31.68	2	750	199,614	---	-----	-----	Area E8-Pre to Evans	
6	SCS Runoff	9.956	2	738	49,003	---	-----	-----	Area E6-Pre to Souza	
7	SCS Runoff	7.066	2	738	34,776	---	-----	-----	Area E7-Pre to Jensen	
8	SCS Runoff	41.90	2	744	239,035	---	-----	-----	Area E8-Pre to Marsala	
9	SCS Runoff	7.066	2	732	31,451	---	-----	-----	Post to D-Basin1	
10	Reservoir	2.525	2	756	30,796	9	318.09	10,127	Outflow D-Basin1	
11	SCS Runoff	20.25	2	738	99,865	---	-----	-----	Post Bypass D-Basin1	
12	Combine	22.45	2	738	130,661	10, 11	-----	-----	Total Post to Gay Hill Rd	
13	SCS Runoff	5.715	2	736	27,159	---	-----	-----	Area E2-Post to Videll	
14	SCS Runoff	2.915	2	736	13,811	---	-----	-----	Area P36-Post to Champion	
15	SCS Runoff	2.320	2	730	9,462	---	-----	-----	Area P35-Post to Fernandez	
16	SCS Runoff	6.991	2	724	21,312	---	-----	-----	Post to D-Basin2	
17	Reservoir	1.776	2	746	21,028	16	336.28	6,184	Outflow D-Basin2	
18	SCS Runoff	28.36	2	744	161,911	---	-----	-----	Post Bypass D-Basin2	
19	Combine	30.14	2	744	182,939	17, 18	-----	-----	Total Post to Evans	
20	SCS Runoff	8.361	2	738	41,187	---	-----	-----	Area P33-Post to Souza	
21	SCS Runoff	7.009	2	738	34,525	---	-----	-----	Area P32-Post to Jensen	
22	SCS Runoff	33.09	2	736	158,355	---	-----	-----	Post to D-Basin3	
23	Reservoir	3.253	2	838	154,275	22	340.58	88,504	Outflow D-Basin3	
24	SCS Runoff	35.28	2	736	166,915	---	-----	-----	Post Bypass D-Basin3	
25	Combine	37.75	2	736	321,189	23, 24	-----	-----	Total Post to Marsala	
9R Burlake Rd LLC.gpw					Return Period: 100 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

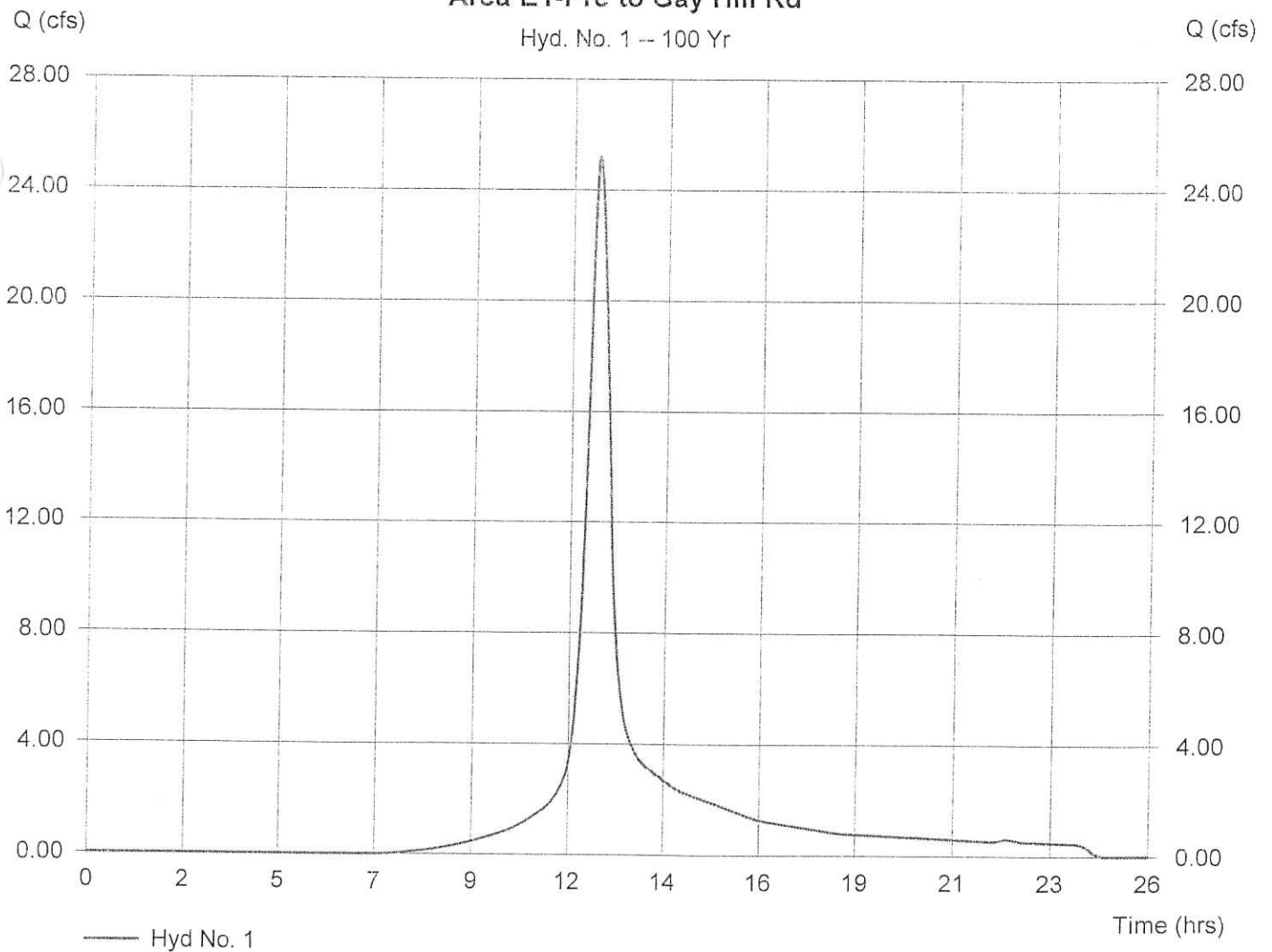
Hydrograph type = SCS Runoff
 Storm frequency = 100 yrs
 Drainage area = 8.000 ac
 Basin Slope = 0.0 %
 Tc method = USER
 Total precip. = 7.10 in
 Storm duration = 24 hrs

Peak discharge = 25.20 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 = 124,249 cuft

Area E1-Pre to Gay Hill Rd

Hyd. No. 1 -- 100 Yr



Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Friday, Jun 12 2009, 10:0 AM

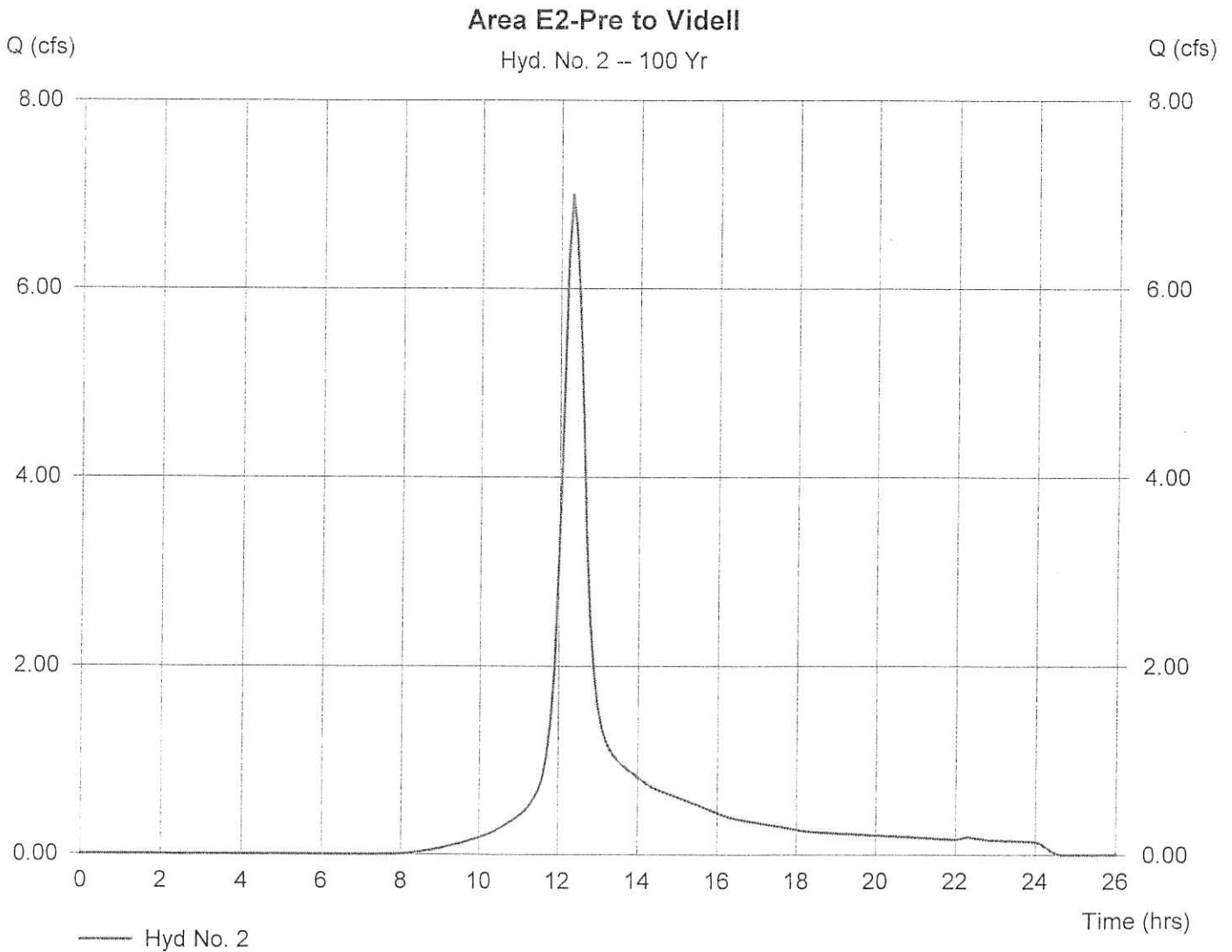
Hyd. No. 2

Area E2-Pre to Videll

Hydrograph type = SCS Runoff
 Storm frequency = 100 yrs
 Drainage area = 2.490 ac
 Basin Slope = 0.0 %
 Tc method = USER
 Total precip. = 7.10 in
 Storm duration = 24 hrs

Peak discharge = 7.002 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 = 36,350 cuft



Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Friday, Jun 12 2009, 10:0 AM

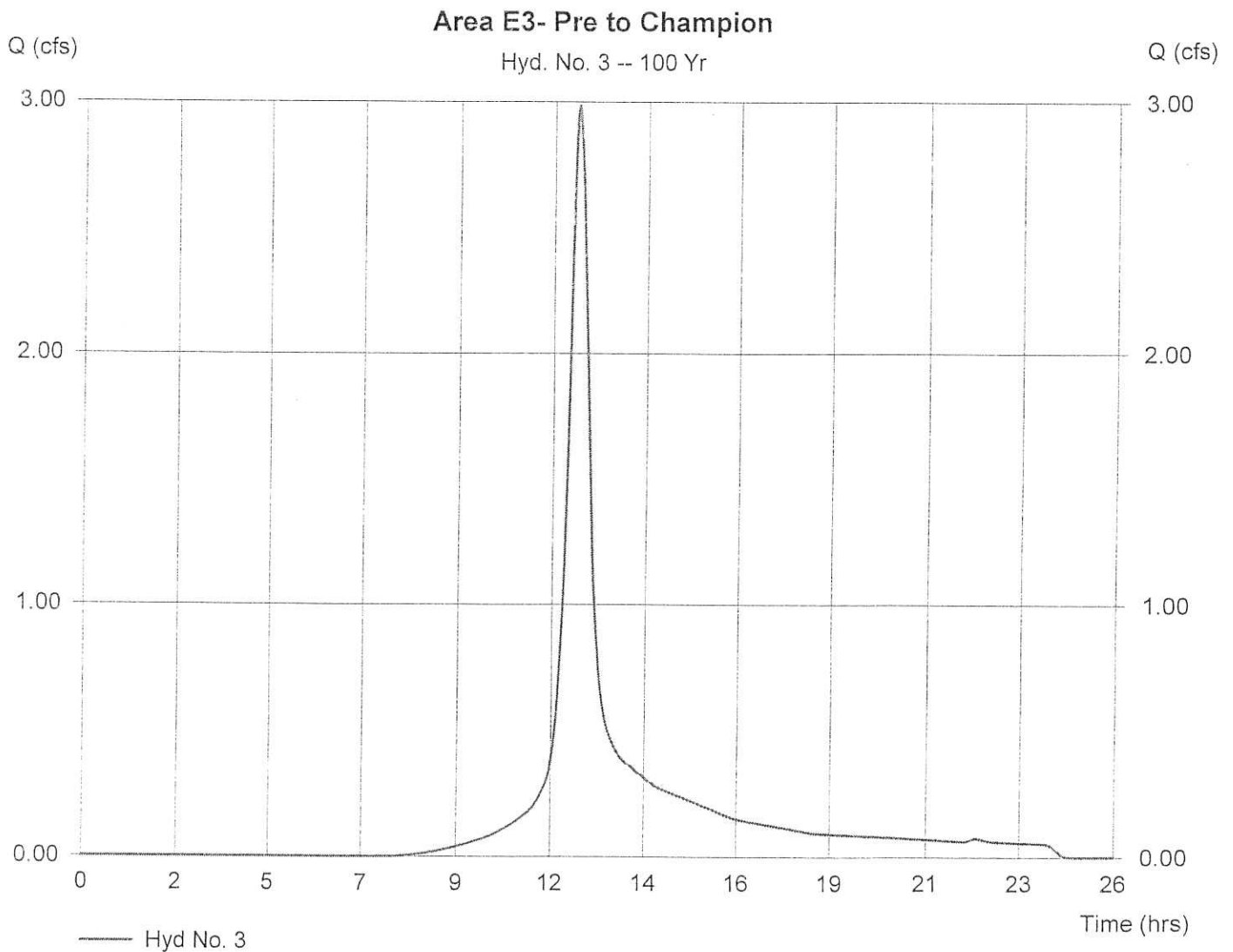
Hyd. No. 3

Area E3- Pre to Champion

Hydrograph type = SCS Runoff
 Storm frequency = 100 yrs
 Drainage area = 0.950 ac
 Basin Slope = 0.0 %
 Tc method = USER
 Total precip. = 7.10 in
 Storm duration = 24 hrs

Peak discharge = 2.985 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 = 14,116 cuft



Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Friday, Jun 12 2009, 10:0 AM

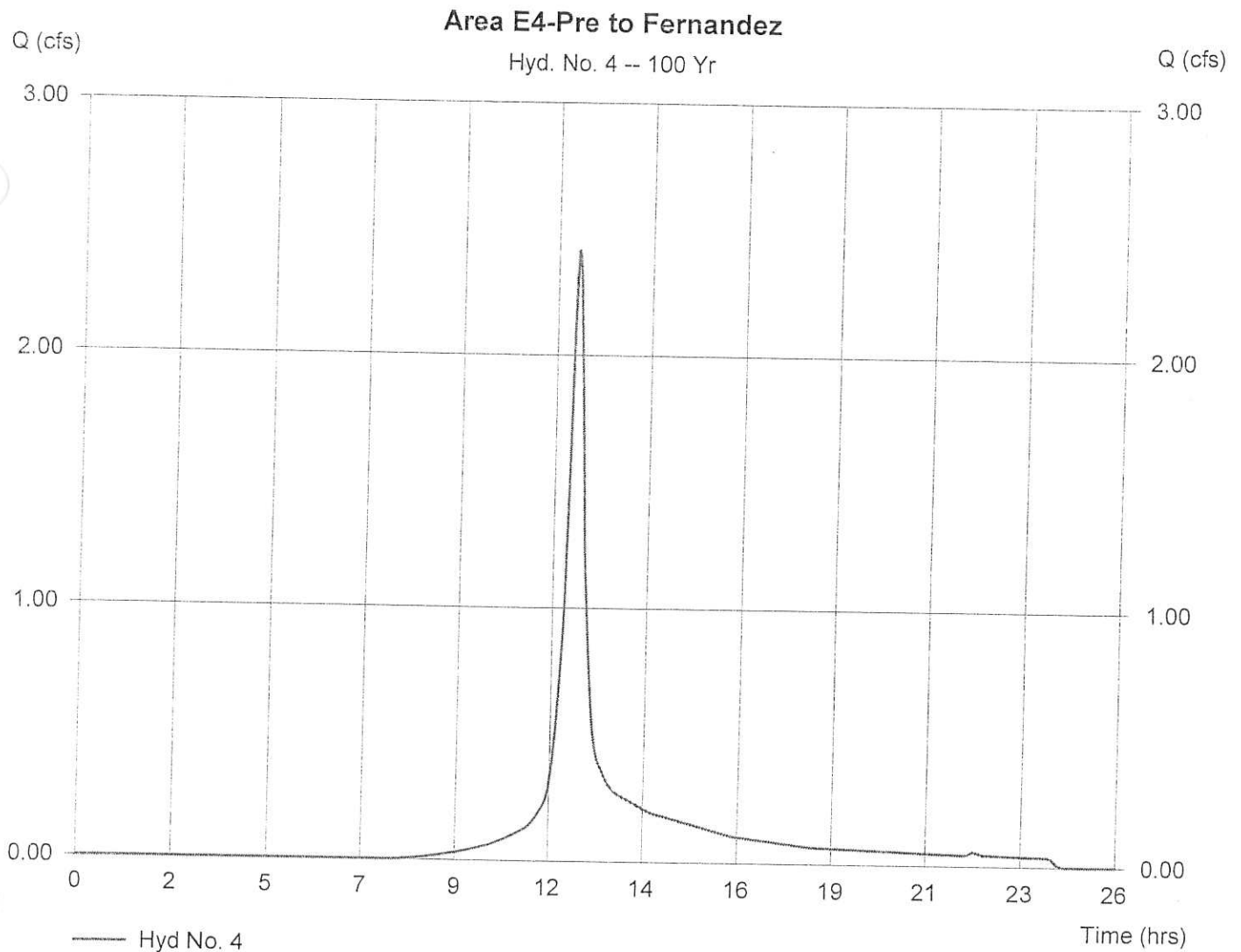
Hyd. No. 4

Area E4-Pre to Fernandez

Hydrograph type = SCS Runoff
Storm frequency = 100 yrs
Drainage area = 0.690 ac
Basin Slope = 0.0 %
Tc method = USER
Total precip. = 7.10 in
Storm duration = 24 hrs

Peak discharge = 2.413 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 = 9,821 cuft



Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Friday, Jun 12 2009, 10:0 AM

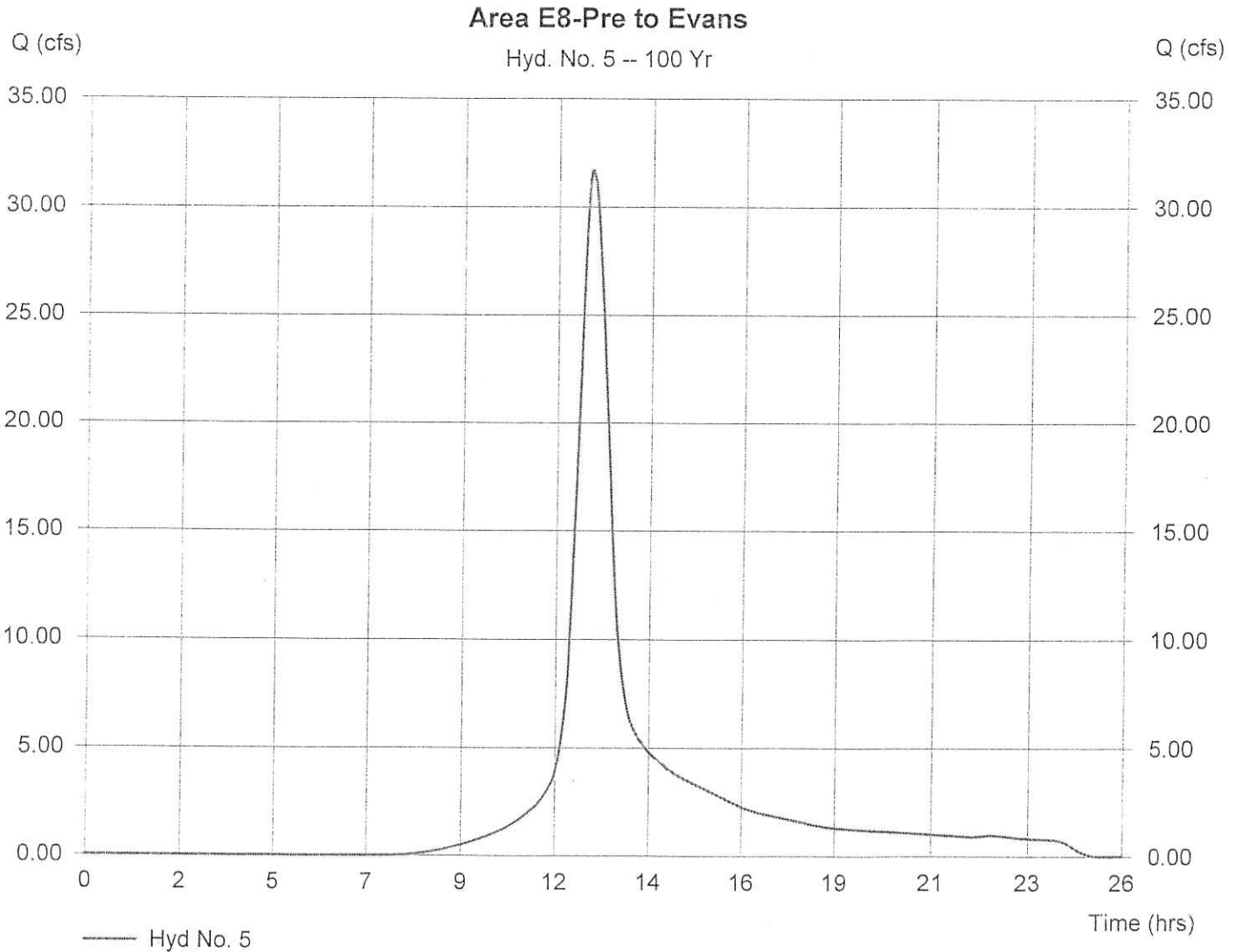
Hyd. No. 5

Area E8-Pre to Evans

Hydrograph type = SCS Runoff
Storm frequency = 100 yrs
Drainage area = 13.190 ac
Basin Slope = 0.0 %
Tc method = USER
Total precip. = 7.10 in
Storm duration = 24 hrs

Peak discharge = 31.68 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 = 199,614 cuft



Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Friday, Jun 12 2009, 10:0 AM

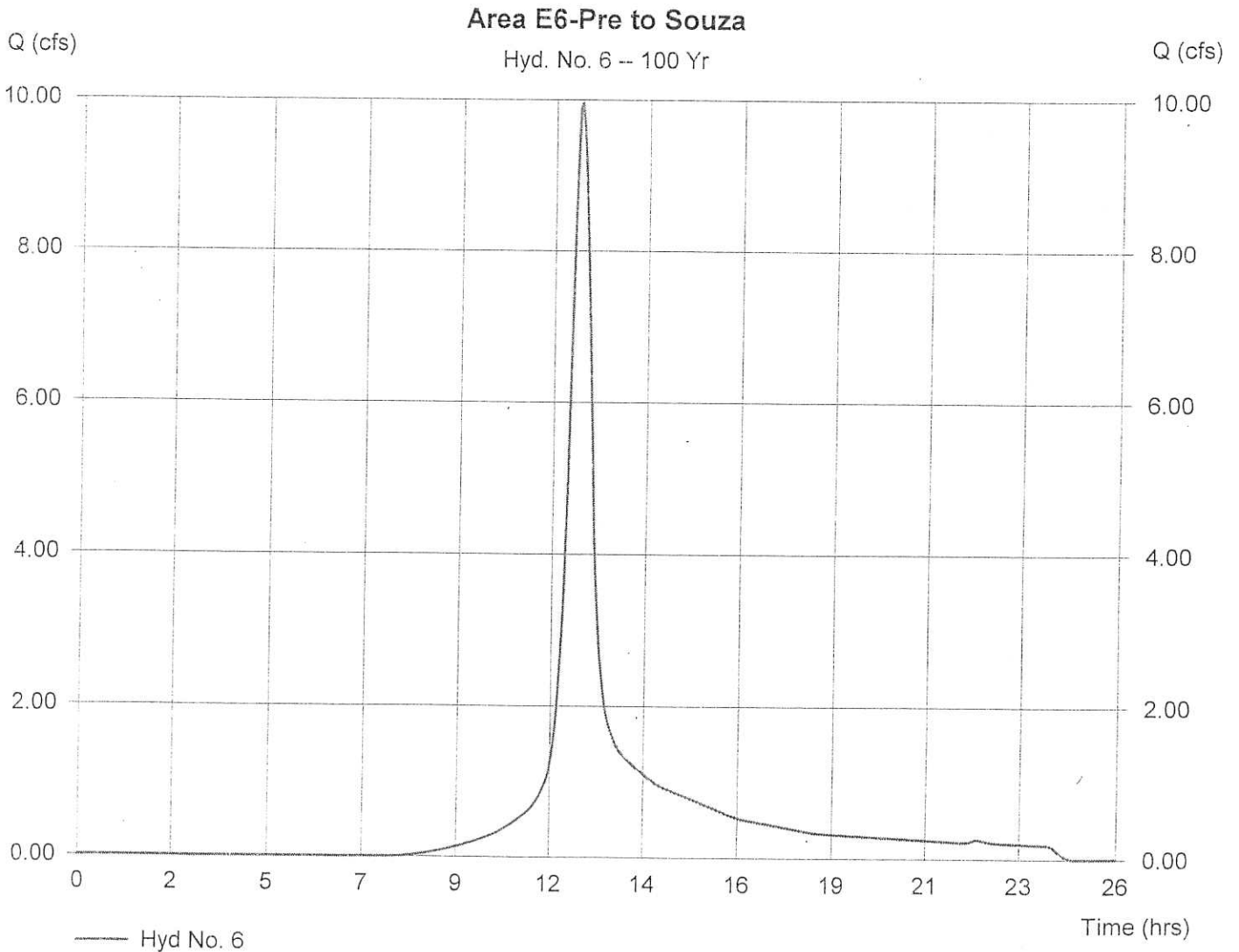
Hyd. No. 6

Area E6-Pre to Souza

Hydrograph type = SCS Runoff
 Storm frequency = 100 yrs
 Drainage area = 3.410 ac
 Basin Slope = 0.0 %
 Tc method = USER
 Total precip. = 7.10 in
 Storm duration = 24 hrs

Peak discharge = 9.956 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 = 49,003 cuft



Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Friday, Jun 12 2009, 10:0 AM

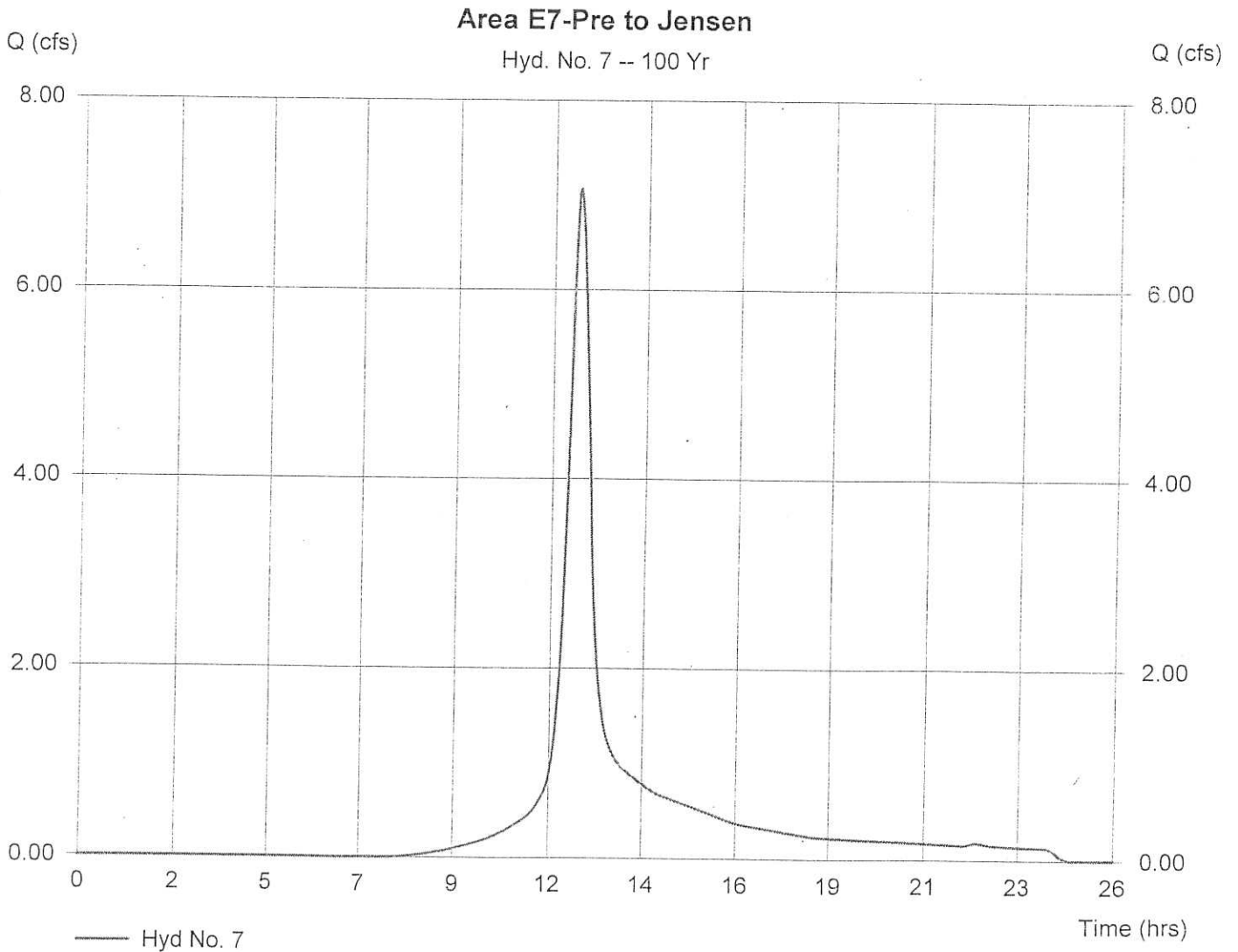
Hyd. No. 7

Area E7-Pre to Jensen

Hydrograph type = SCS Runoff
Storm frequency = 100 yrs
Drainage area = 2.420 ac
Basin Slope = 0.0 %
Tc method = USER
Total precip. = 7.10 in
Storm duration = 24 hrs

Peak discharge = 7.066 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 = 34,776 cuft



Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Friday, Jun 12 2009, 10:0 AM

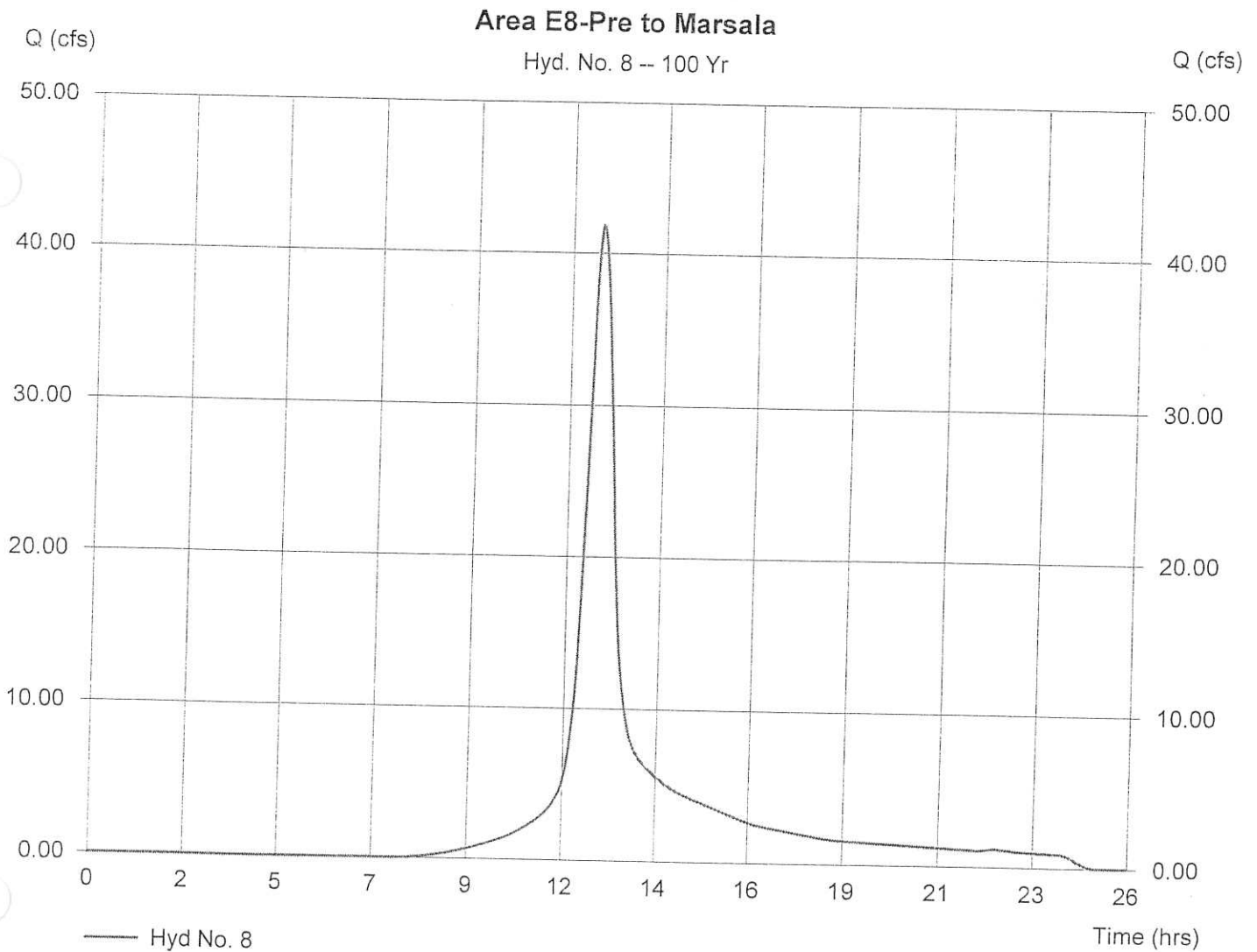
Hyd. No. 8

Area E8-Pre to Marsala

Hydrograph type = SCS Runoff
Storm frequency = 100 yrs
Drainage area = 16.130 ac
Basin Slope = 0.0 %
Tc method = USER
Total precip. = 7.10 in
Storm duration = 24 hrs

Peak discharge = 41.90 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 = 239,035 cuft



Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Friday, Jun 12 2009, 10:0 AM

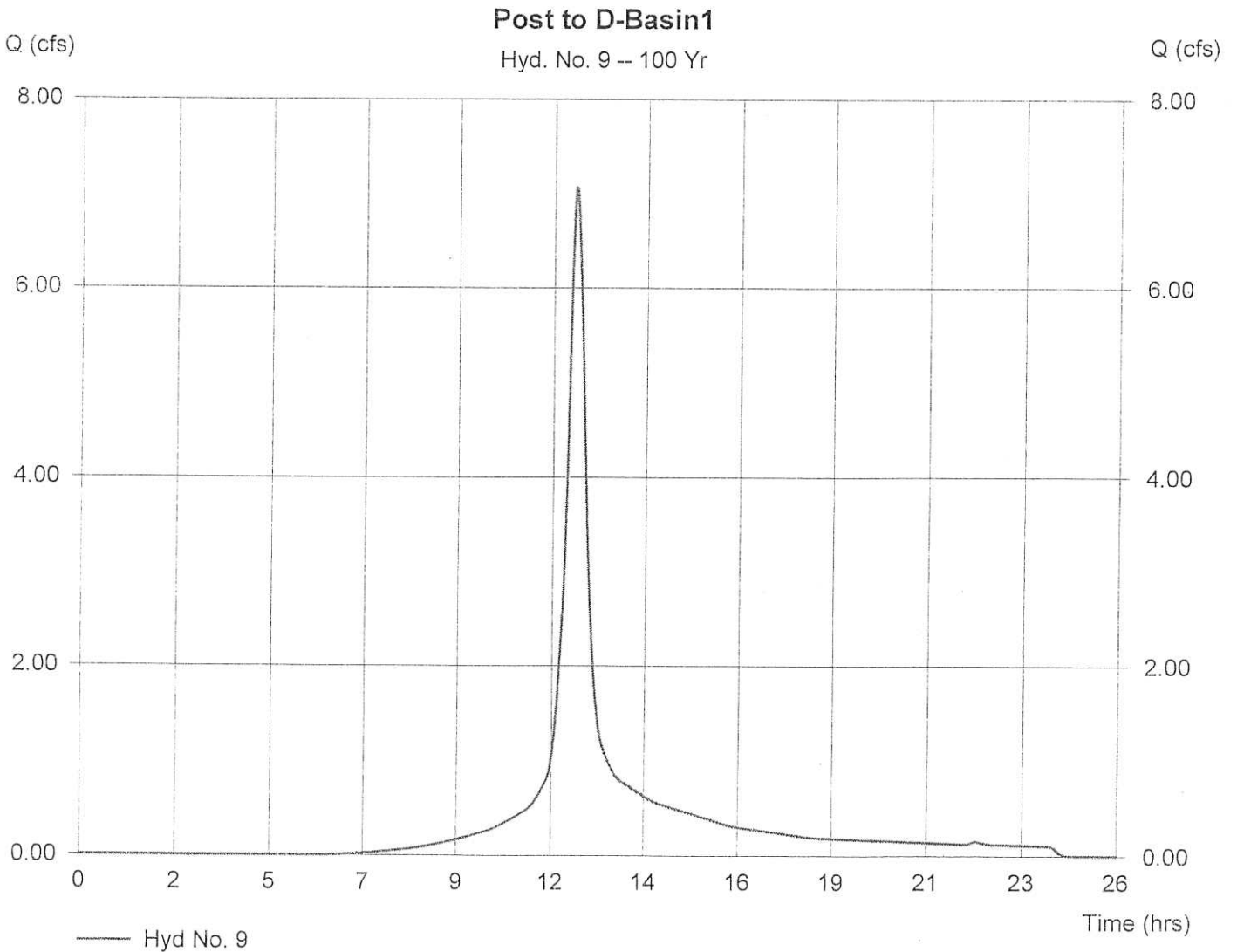
Hyd. No. 9

Post to D-Basin1

Hydrograph type = SCS Runoff
Storm frequency = 100 yrs
Drainage area = 1.810 ac
Basin Slope = 0.0 %
Tc method = USER
Total precip. = 7.10 in
Storm duration = 24 hrs

Peak discharge = 7.066 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 = 31,451 cuft



Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Friday, Jun 12 2009, 10:0 AM

Hyd. No. 10

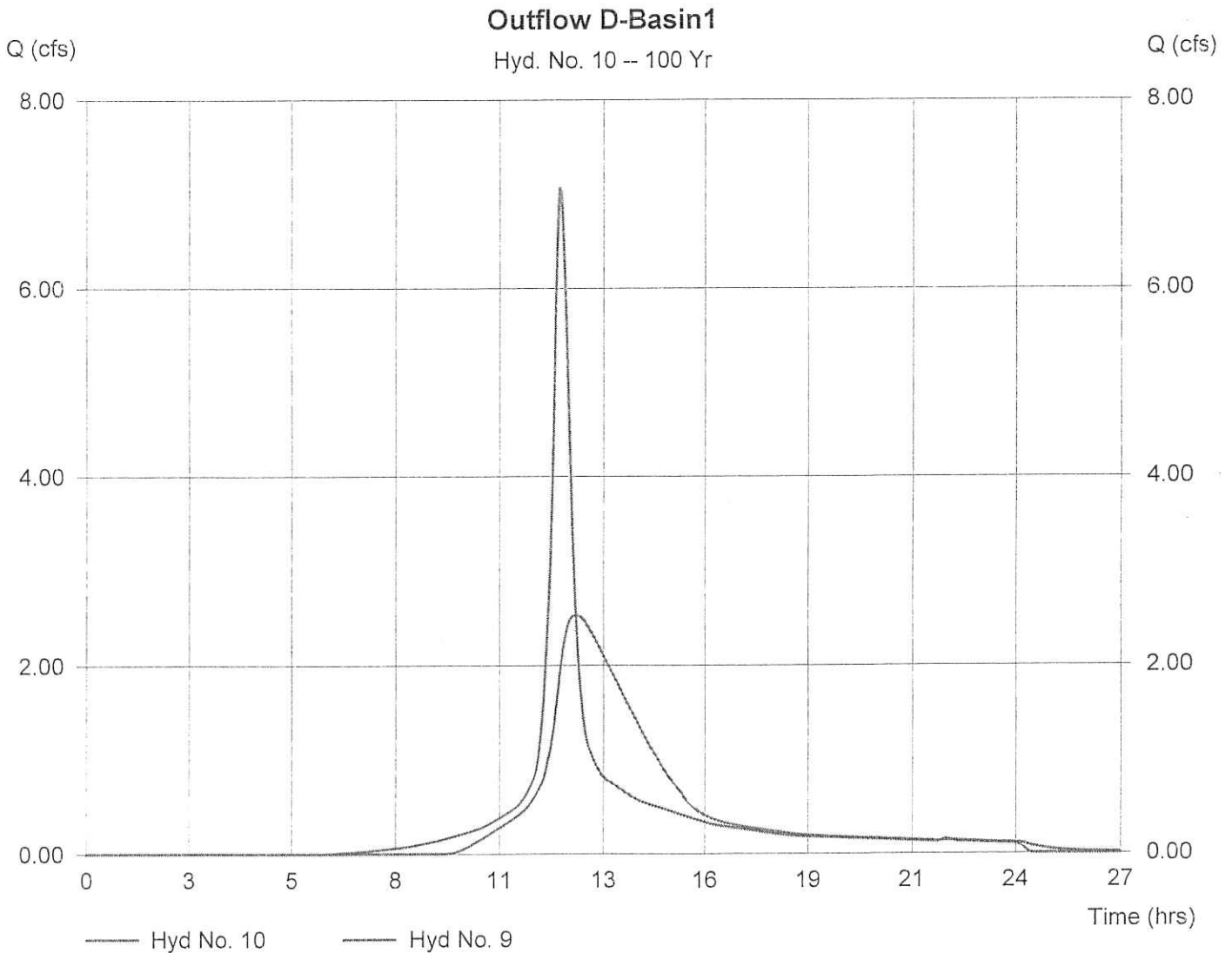
Outflow D-Basin1

Hydrograph type = Reservoir
 Storm frequency = 100 yrs
 Inflow hyd. No. = 9
 Reservoir name = D-Basin1

Peak discharge = 2.525 cfs
 Time interval = 2 min
 Max. Elevation = 318.09 ft
 Max. Storage = 10,127 cuft

Storage Indication method used.

Hydrograph Volume = 30,796 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

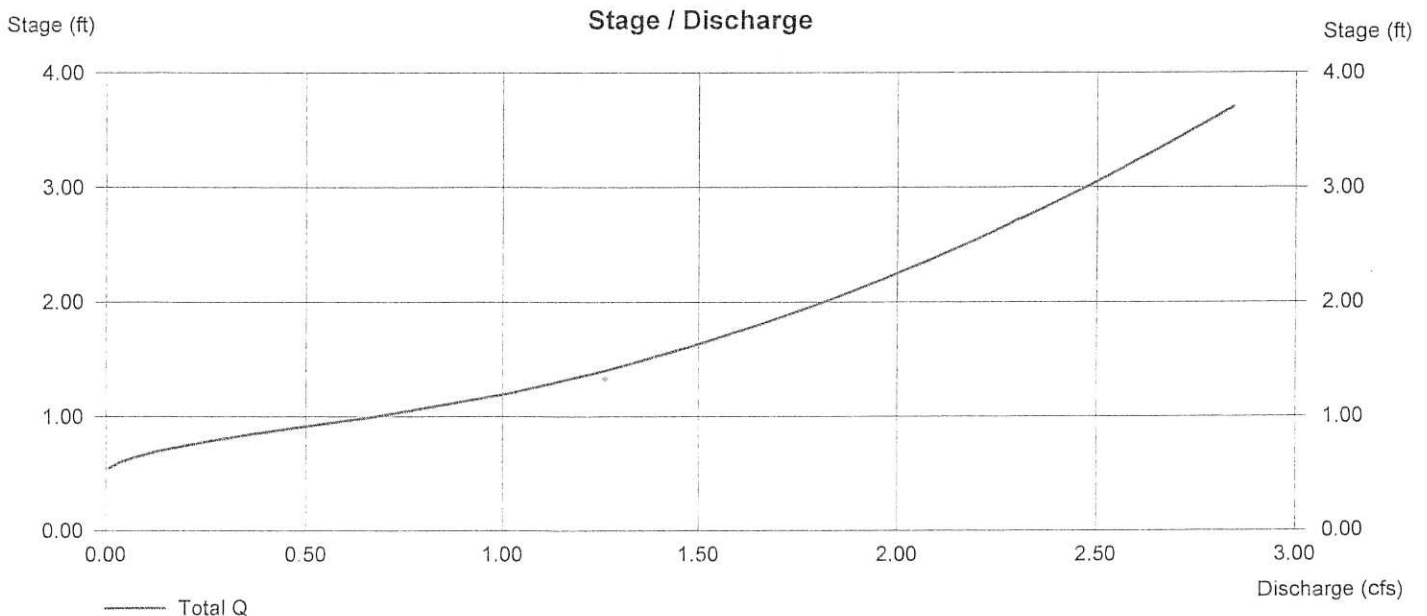
	[A]	[B]	[C]	[D]
Rise (in)	= 8.00	0.00	0.00	0.00
Span (in)	= 8.00	0.00	0.00	0.00
No. Barrels	= 1	0	0	0
Invert El. (ft)	= 315.50	0.00	0.00	0.00
Length (ft)	= 0.00	0.00	0.00	0.00
Slope (%)	= 0.00	0.00	0.00	0.00
N-Value	= .013	.000	.000	.000
Orif. Coeff.	= 0.60	0.00	0.00	0.00
Multi-Stage	= n/a	No	No	No

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

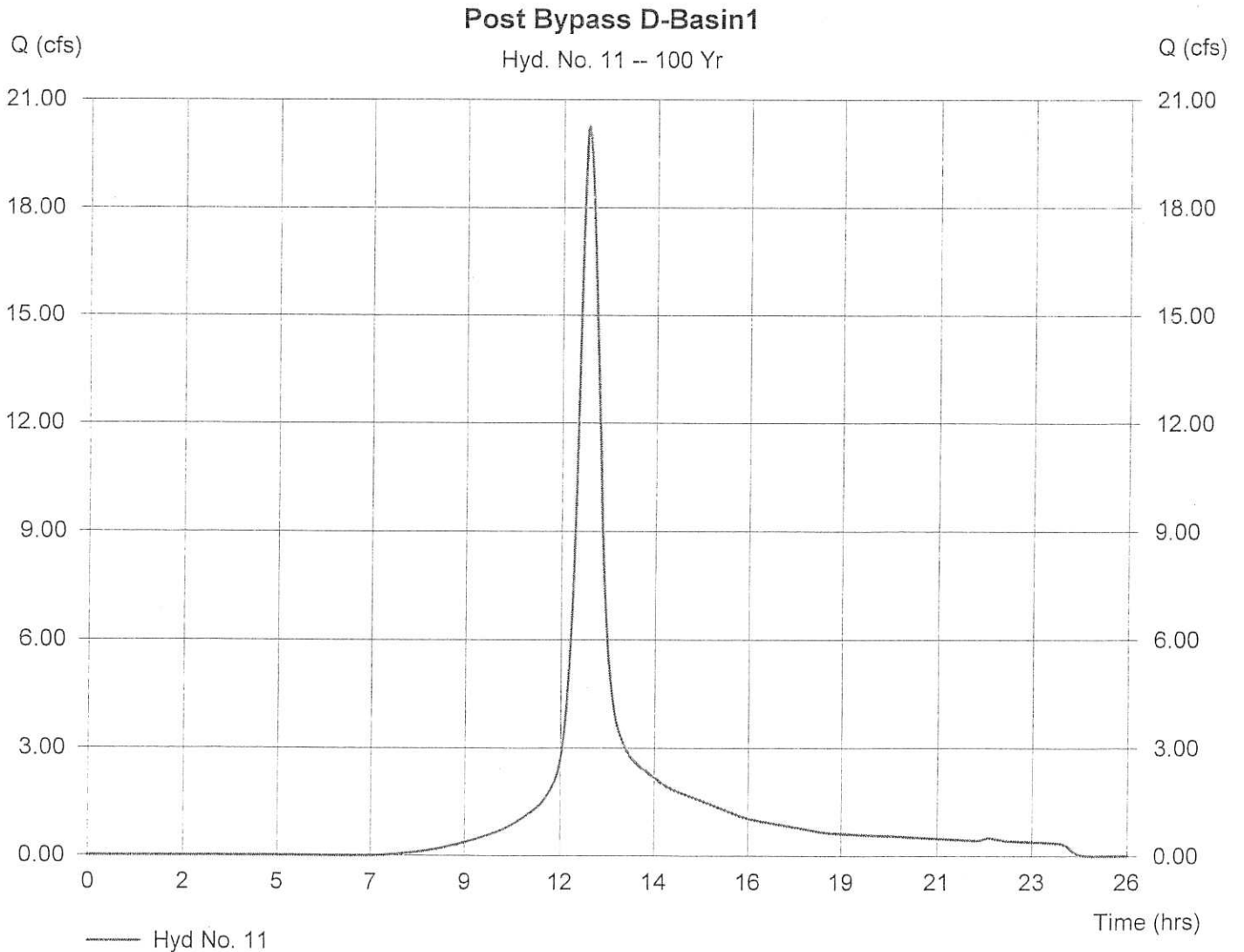
Hyd. No. 11

Post Bypass D-Basin1

Hydrograph type = SCS Runoff
 Storm frequency = 100 yrs
 Drainage area = 6.430 ac
 Basin Slope = 0.0 %
 Tc method = USER
 Total precip. = 7.10 in
 Storm duration = 24 hrs

Peak discharge = 20.25 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 = 99,865 cuft



Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Friday, Jun 12 2009, 10:0 AM

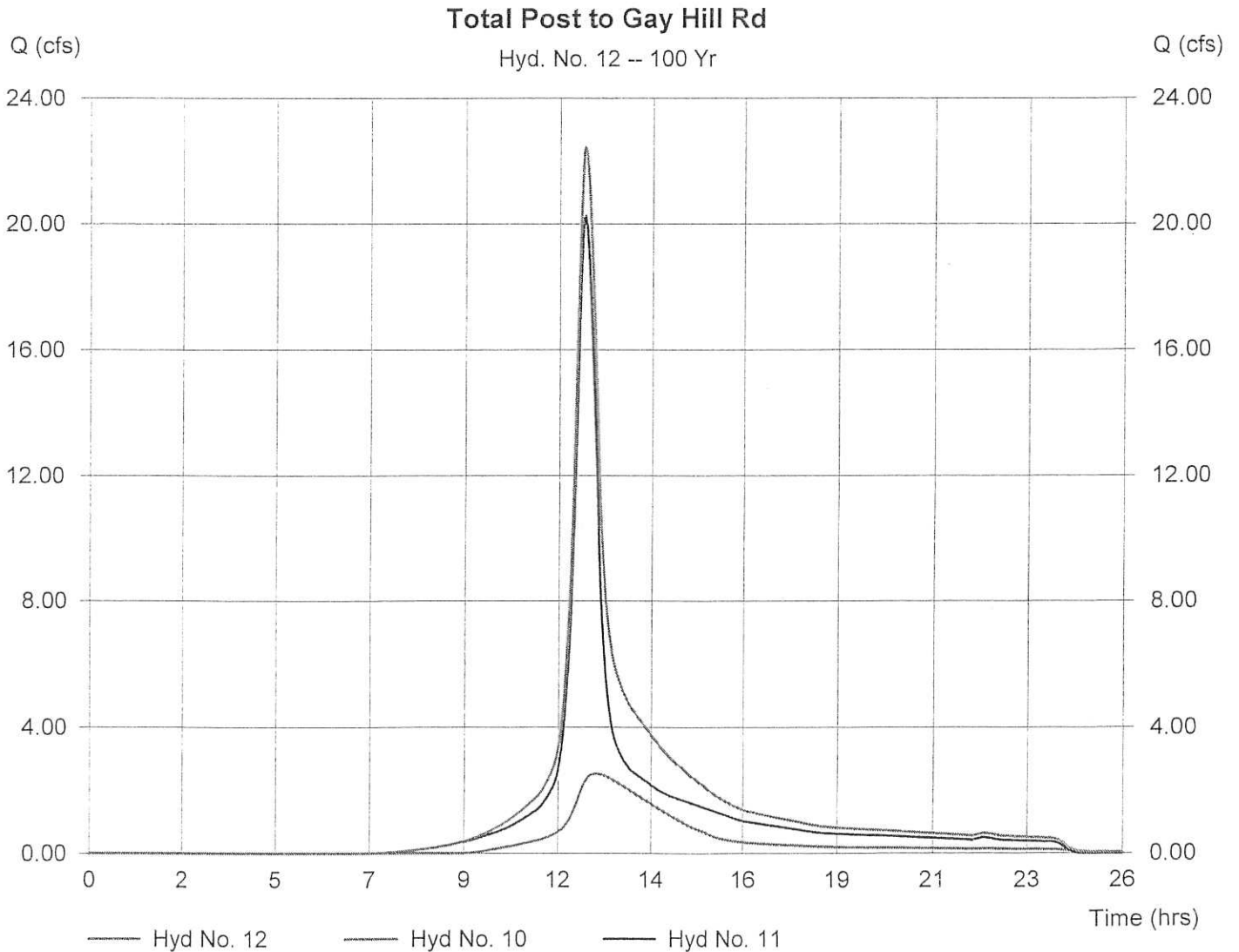
Hyd. No. 12

Total Post to Gay Hill Rd

Hydrograph type = Combine
Storm frequency = 100 yrs
Inflow hyds. = 10, 11

Peak discharge = 22.45 cfs
Time interval = 2 min

Hydrograph Volume = 130,661 cuft



Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Friday, Jun 12 2009, 10:0 AM

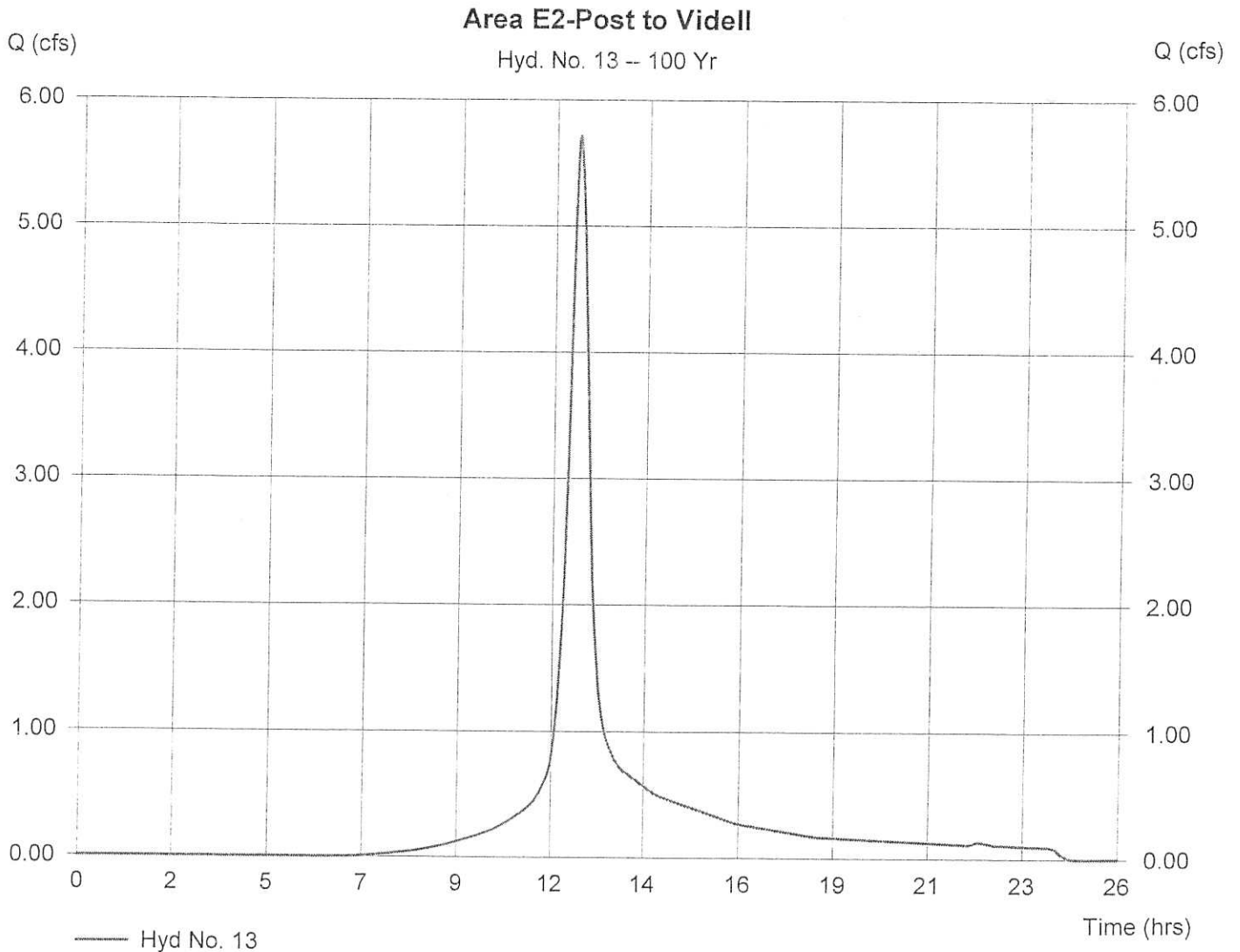
Hyd. No. 13

Area E2-Post to Videll

Hydrograph type = SCS Runoff
Storm frequency = 100 yrs
Drainage area = 1.610 ac
Basin Slope = 0.0 %
Tc method = USER
Total precip. = 7.10 in
Storm duration = 24 hrs

Peak discharge = 5.715 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 = 27,159 cuft



Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Friday, Jun 12 2009, 10:0 AM

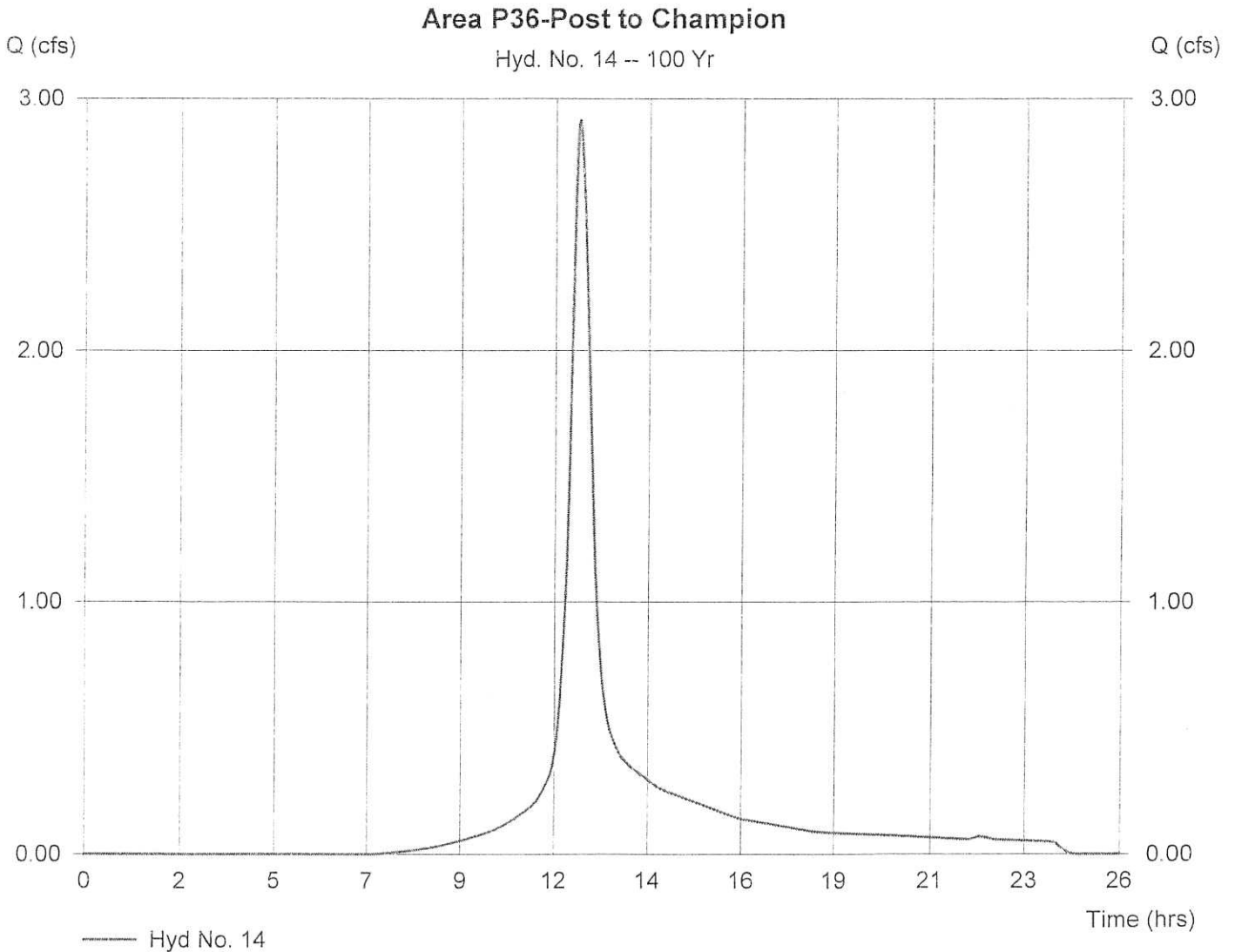
Hyd. No. 14

Area P36-Post to Champion

Hydrograph type = SCS Runoff
Storm frequency = 100 yrs
Drainage area = 0.860 ac
Basin Slope = 0.0 %
Tc method = USER
Total precip. = 7.10 in
Storm duration = 24 hrs

Peak discharge = 2.915 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 = 13,811 cuft



Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Friday, Jun 12 2009, 10:0 AM

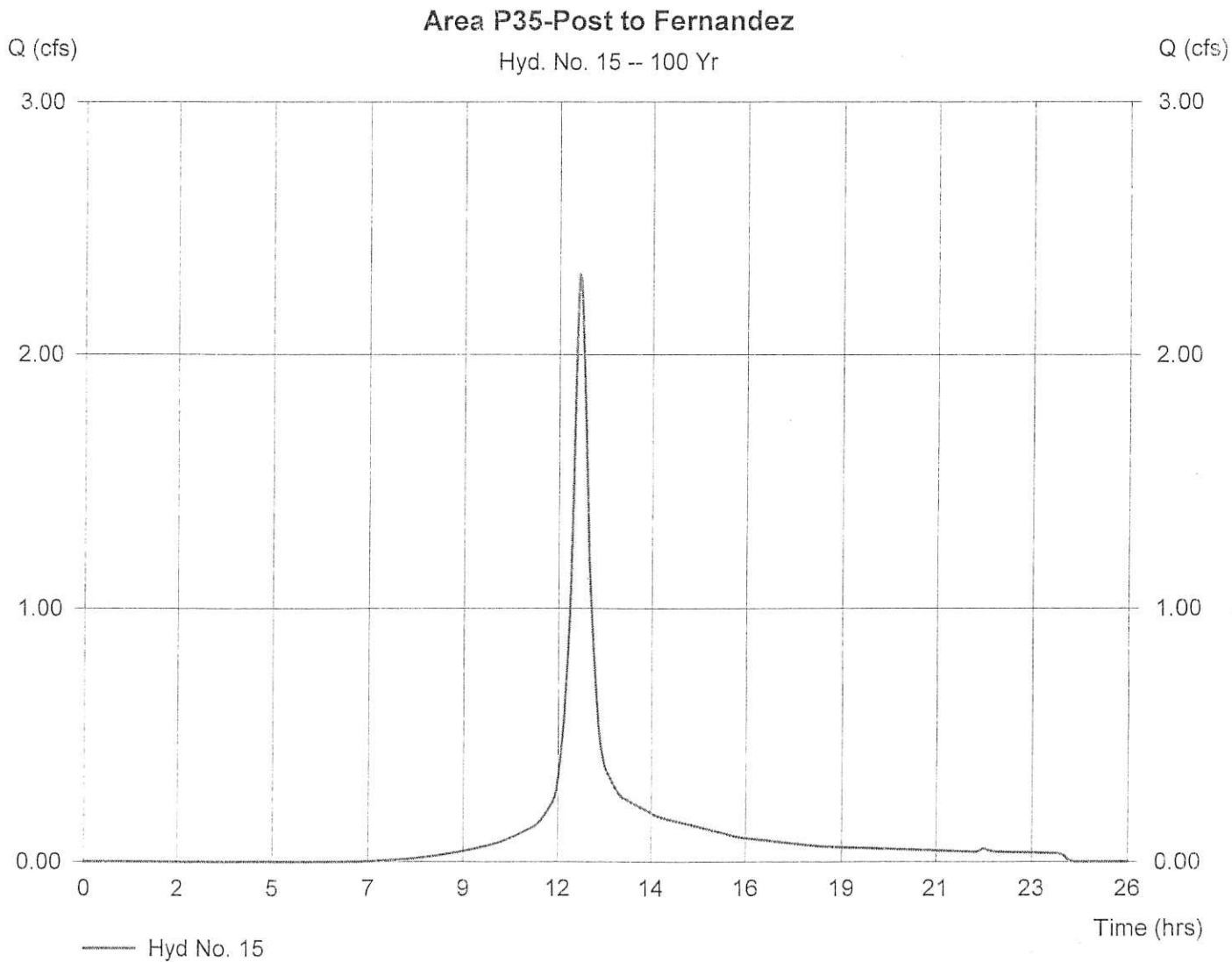
Hyd. No. 15

Area P35-Post to Fernandez

Hydrograph type = SCS Runoff
 Storm frequency = 100 yrs
 Drainage area = 0.600 ac
 Basin Slope = 0.0 %
 Tc method = USER
 Total precip. = 7.10 in
 Storm duration = 24 hrs

Peak discharge = 2.320 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 = 9,462 cuft



Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Friday, Jun 12 2009, 10:0 AM

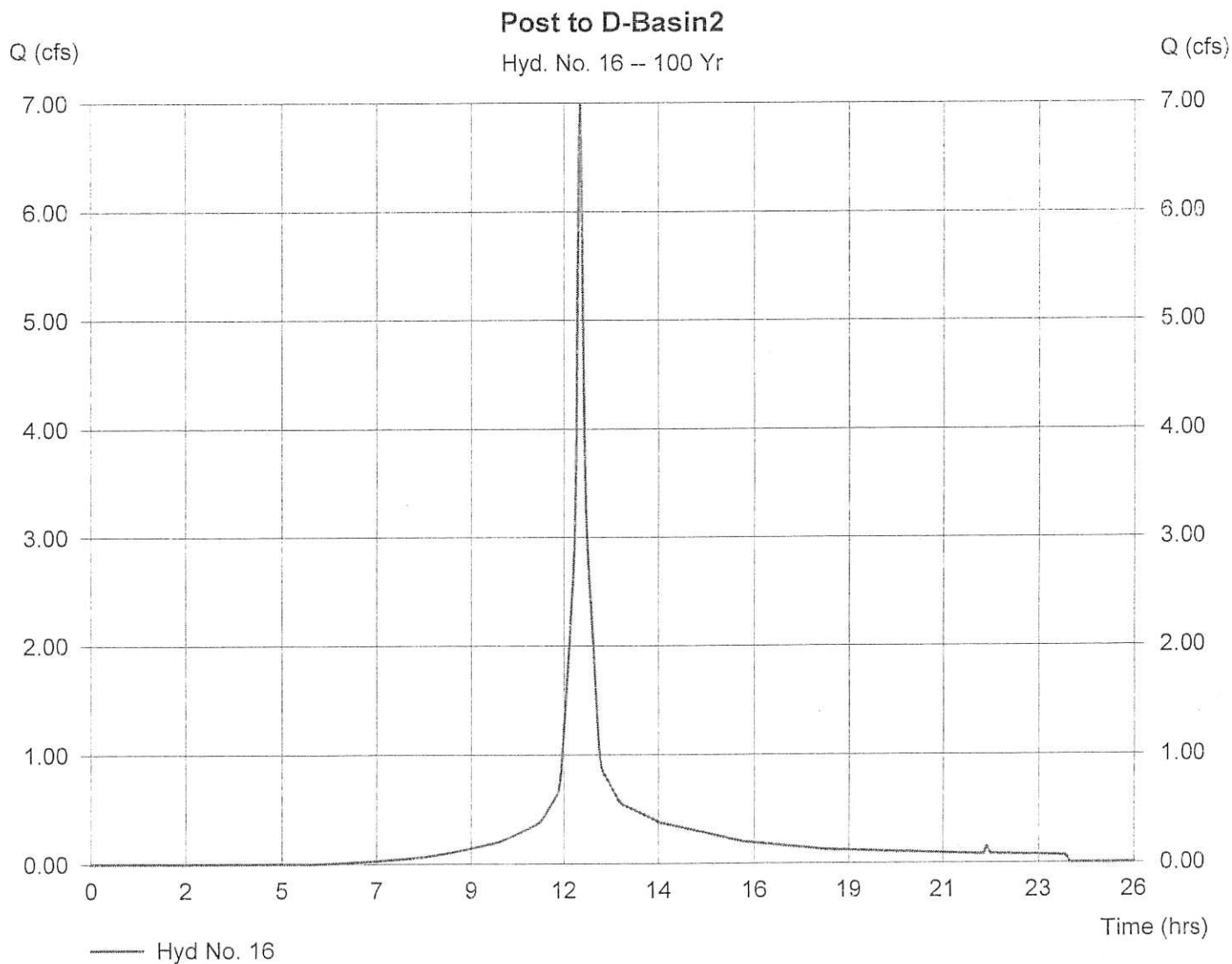
Hyd. No. 16

Post to D-Basin2

Hydrograph type = SCS Runoff
 Storm frequency = 100 yrs
 Drainage area = 1.250 ac
 Basin Slope = 0.0 %
 Tc method = USER
 Total precip. = 7.10 in
 Storm duration = 24 hrs

Peak discharge = 6.991 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 = 21,312 cuft



Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Friday, Jun 12 2009, 10:0 AM

Hyd. No. 17

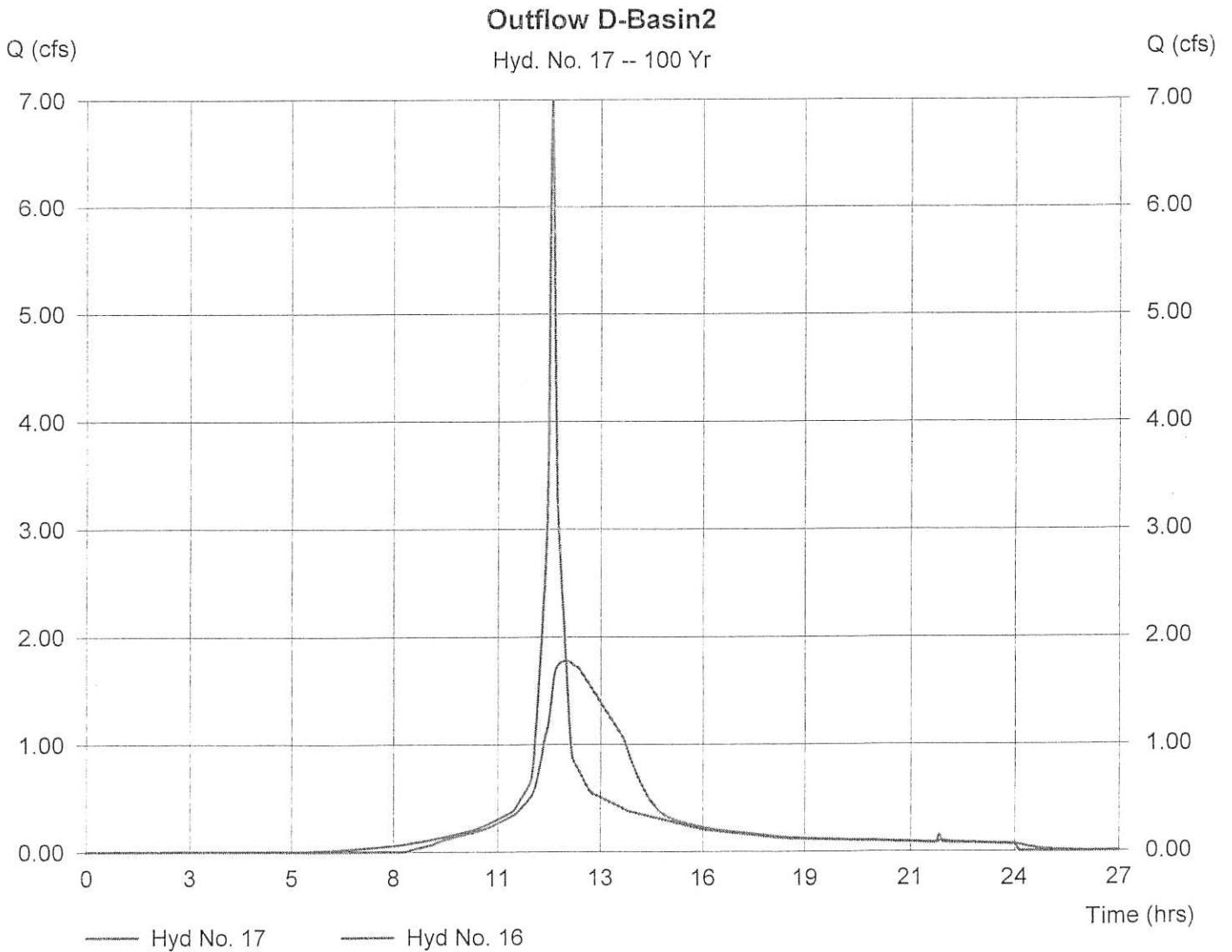
Outflow D-Basin2

Hydrograph type = Reservoir
 Storm frequency = 100 yrs
 Inflow hyd. No. = 16
 Reservoir name = D-Basin2

Peak discharge = 1.776 cfs
 Time interval = 2 min
 Max. Elevation = 336.28 ft
 Max. Storage = 6,184 cuft

Storage Indication method used.

Hydrograph Volume = 21,028 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.

