

Table of Contents

Hydrograph Return Period Recap	1
5 - Year	
Summary Report	2
Hydrograph Reports	3
Hydrograph No. 1, Rational, DA1-R100	3
Hydrograph No. 2, Rational, DA2-R100	4
Hydrograph No. 3, Rational, DAOFFSITE-R100	5
Hydrograph No. 4, Rational, DA3-R100	6
Hydrograph No. 5, Combine, ADD DA2 & DAOFFSITE	7
Hydrograph No. 6, Reservoir, DA1 TO STORM SEWER	8
Pond Report	9
Hydrograph No. 7, Combine, ADD DA1, DA2, & DAOFFSITE	10
Hydrograph No. 8, Reservoir, THROUGH POND	11
Pond Report	12
Hydrograph No. 9, Combine, COMBINE OUTFALL TO DA3	13
Hydrograph No. 10, Reservoir, OFFSITE TO EAST	14
Pond Report	15

Hydrograph Return Period Recap

Hyd. No.	Hydrograph type (origin)	Inflow Hyd(s)	Peak Outflow (cfs)								Hydrograph description
			1-Yr	2-Yr	3-Yr	5-Yr	10-Yr	25-Yr	50-Yr	100-Yr	
1	Rational	-----	2.167	2.565	-----	3.118	3.569	4.158	4.614	4.993	DA1-R100
2	Rational	-----	9.456	11.19	-----	13.61	15.58	18.15	20.14	21.79	DA2-R100
3	Rational	-----	3.519	4.166	-----	5.065	5.797	6.754	7.495	8.111	DAOFFSITE-R100
4	Rational	-----	4.096	4.849	-----	5.895	6.747	7.861	8.722	9.439	DA3-R100
5	Combine	2, 3,	12.98	15.36	-----	18.67	21.37	24.90	27.63	29.90	ADD DA2 & DAOFFSITE
6	Reservoir	1	2.119	2.509	-----	3.050	3.491	4.067	4.513	4.899	DA1 TO STORM SEWER
7	Combine	5, 6	15.07	17.84	-----	21.69	24.83	28.93	32.10	34.76	ADD DA1, DA2, & DAOFFSITE
8	Reservoir	7	0.000	0.000	-----	0.000	0.000	0.000	2.383	5.665	THROUGH POND
9	Combine	4, 8	4.096	4.849	-----	5.895	6.747	7.861	8.722	9.439	COMBINE OUTFALL TO DA3
10	Reservoir	9	4.096	4.848	-----	5.894	6.747	7.861	8.722	9.439	OFFSITE TO EAST

Hydrograph Summary Report

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to peak (min)	Volume (acft)	Inflow hyd(s)	Maximum elevation (ft)	Maximum storage (acft)	Hydrograph description
1	Rational	3.118	1	75	0.322	---	----	-----	DA1-R100
2	Rational	13.61	1	75	1.406	---	----	-----	DA2-R100
3	Rational	5.065	1	75	0.523	---	----	-----	DAOFFSITE-R100
4	Rational	5.895	1	75	0.609	---	----	-----	DA3-R100
5	Combine	18.67	1	75	1.929	2, 3,	----	-----	ADD DA2 & DAOFFSITE
6	Reservoir	3.050	1	77	0.270	1	1363.64	0.067	DA1 TO STORM SEWER
7	Combine	21.69	1	75	2.199	5, 6	----	-----	ADD DA1, DA2, & DAOFFSITE
8	Reservoir	0.000	1	0	0.000	7	1354.15	2.199	THROUGH POND
9	Combine	5.895	1	75	0.609	4, 8	----	-----	COMBINE OUTFALL TO DA3
10	Reservoir	5.894	1	75	0.609	9	1349.09	0.000	OFFSITE TO EAST
Final Drainage 5YEAR-REV.gpw					Return Period: 5 Year		Tuesday, Aug 29 2006		1874

Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Tuesday, Aug 29 2006, 3:35 PM

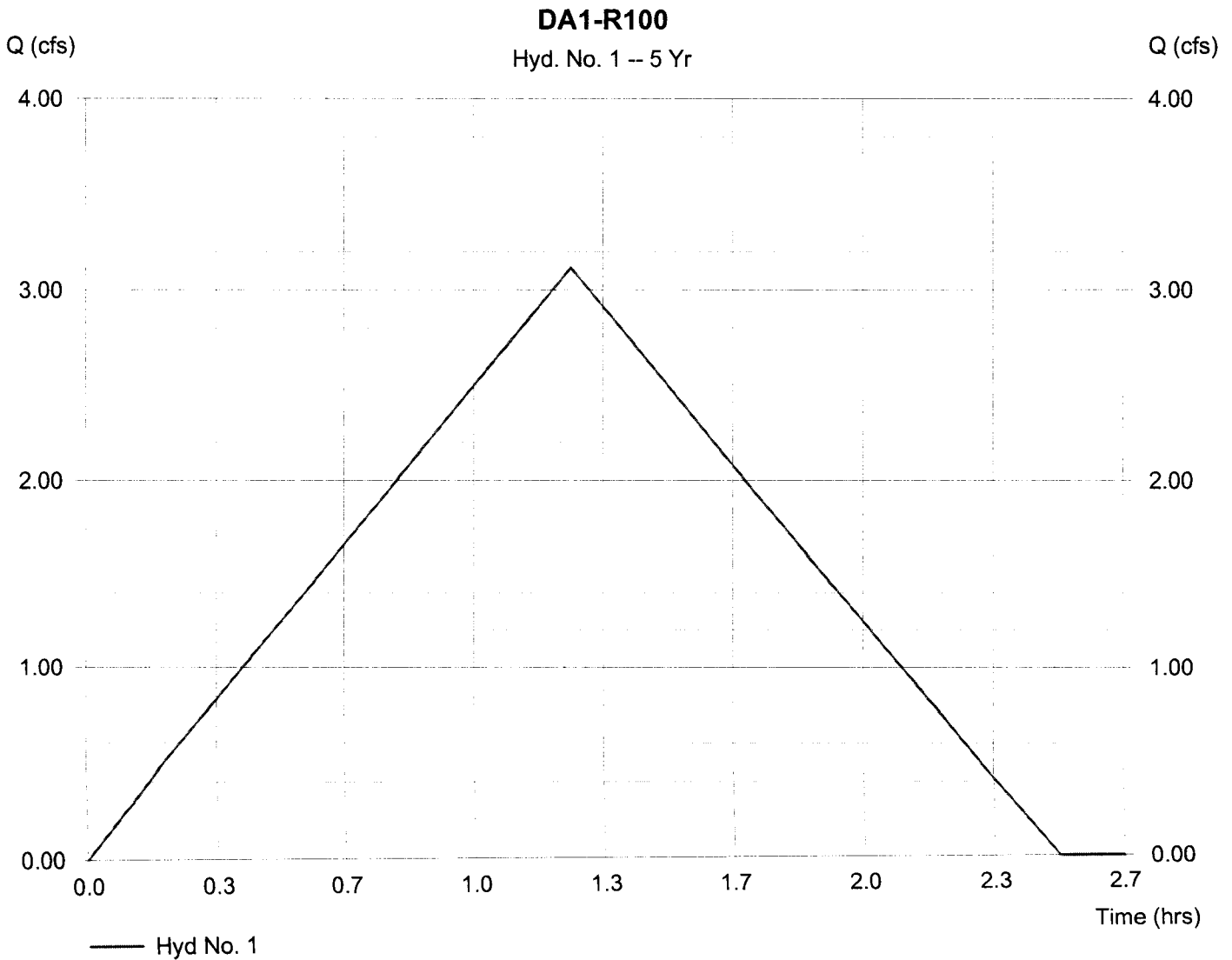
Hyd. No. 1

DA1-R100

Hydrograph type = Rational
Storm frequency = 5 yrs
Drainage area = 1.323 ac
Intensity = 4.621 in/hr
IDF Curve = SedgwickCoREV.IDF

Peak discharge = 3.118 cfs
Time interval = 1 min
Runoff coeff. = 0.51
Tc by User = 15.00 min
Asc/Rec limb fact = 5/5

Hydrograph Volume = 0.322 acft



Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Tuesday, Aug 29 2006, 3:35 PM

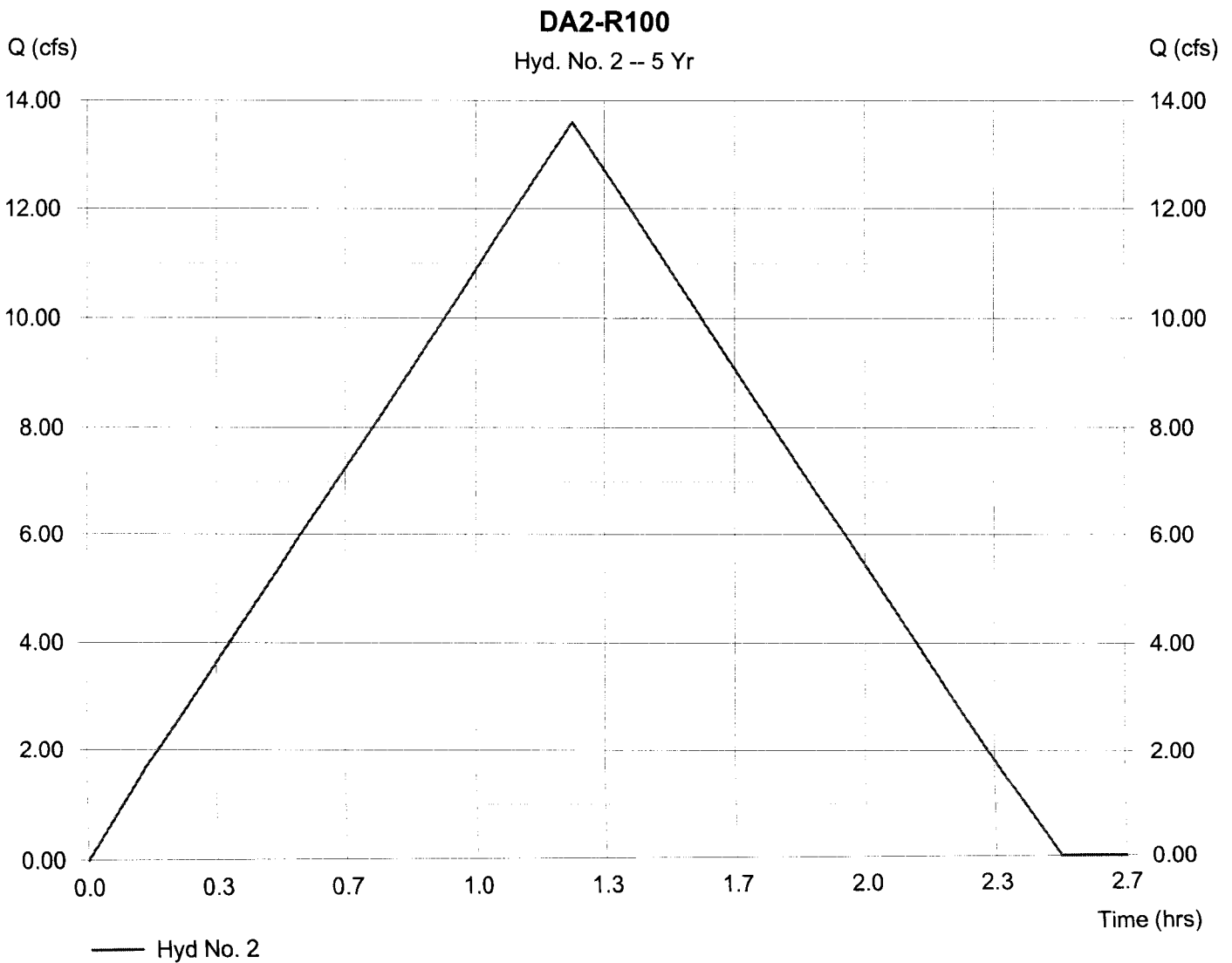
Hyd. No. 2

DA2-R100

Hydrograph type = Rational
 Storm frequency = 5 yrs
 Drainage area = 5.774 ac
 Intensity = 4.621 in/hr
 IDF Curve = SedgwickCoREV.IDF

Peak discharge = 13.61 cfs
 Time interval = 1 min
 Runoff coeff. = 0.51
 Tc by User = 15.00 min
 Asc/Rec limb fact = 5/5

Hydrograph Volume = 1.406 acft



Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Tuesday, Aug 29 2006, 3:35 PM

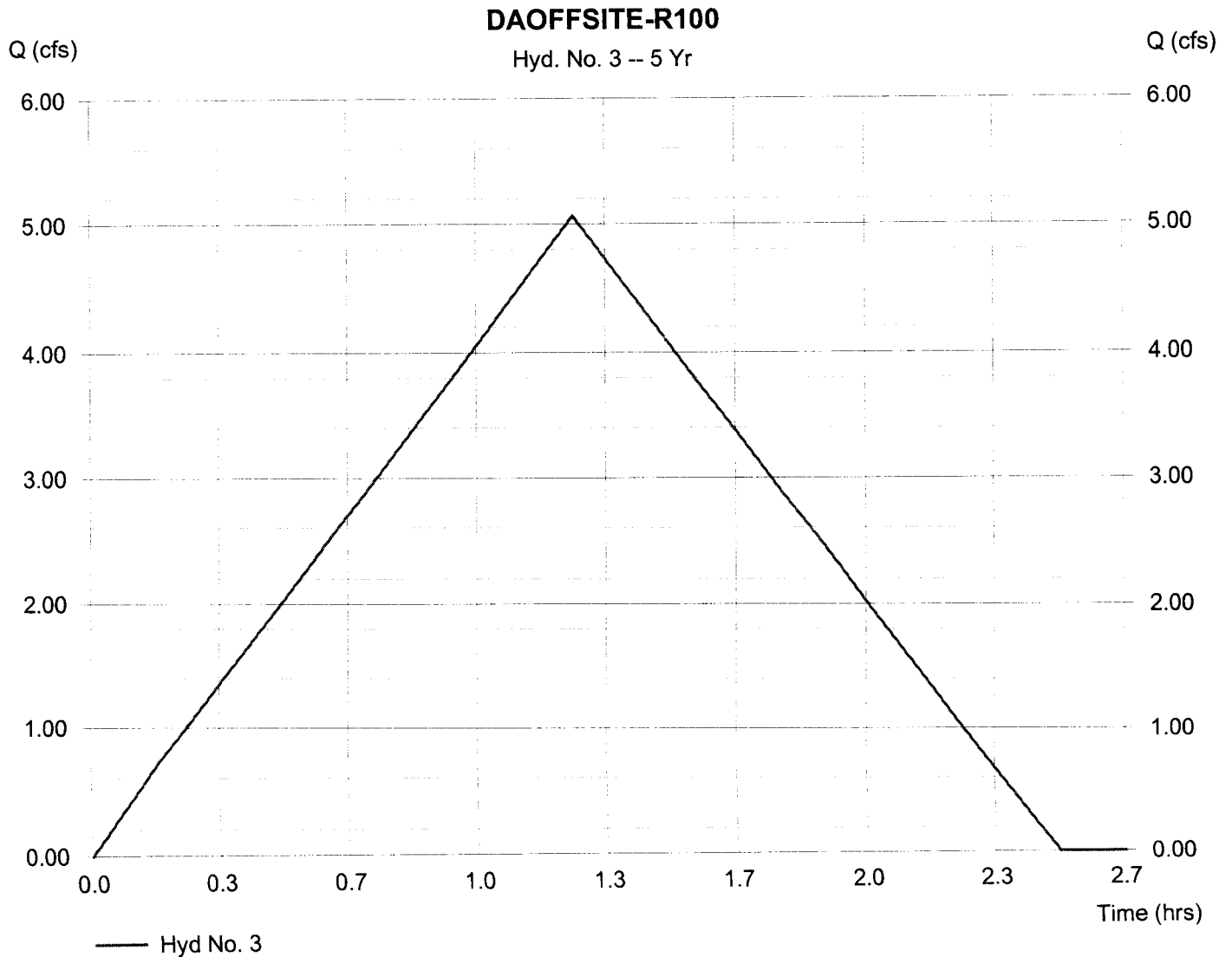
Hyd. No. 3

DAOFFSITE-R100

Hydrograph type = Rational
Storm frequency = 5 yrs
Drainage area = 2.149 ac
Intensity = 4.621 in/hr
IDF Curve = SedgwickCoREV.IDF

Peak discharge = 5.065 cfs
Time interval = 1 min
Runoff coeff. = 0.51
Tc by User = 15.00 min
Asc/Rec limb fact = 5/5

Hydrograph Volume = 0.523 acft



Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Tuesday, Aug 29 2006, 3:35 PM

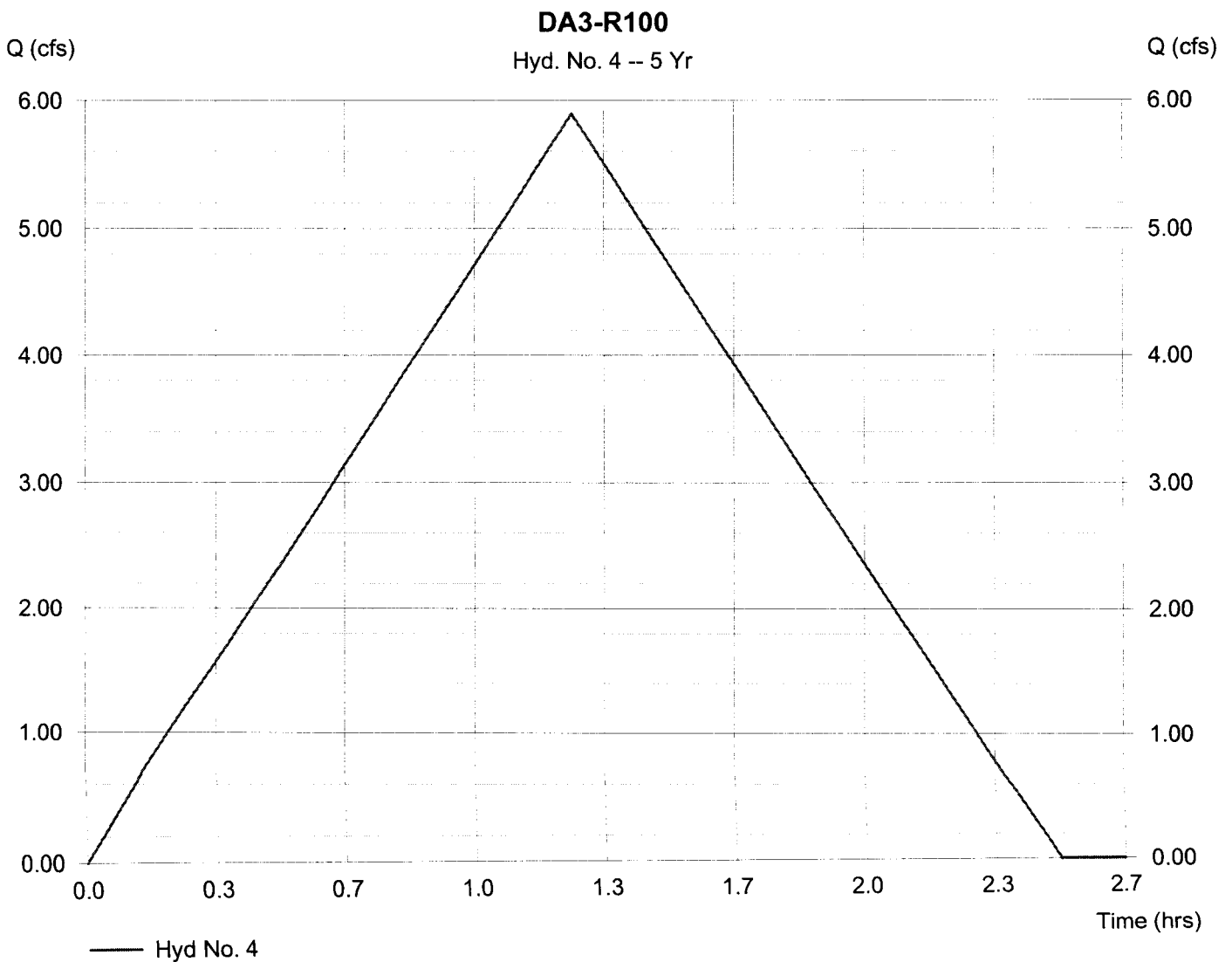
Hyd. No. 4

DA3-R100

Hydrograph type = Rational
 Storm frequency = 5 yrs
 Drainage area = 2.501 ac
 Intensity = 4.621 in/hr
 IDF Curve = SedgwickCoREV.IDF

Peak discharge = 5.895 cfs
 Time interval = 1 min
 Runoff coeff. = 0.51
 Tc by User = 15.00 min
 Asc/Rec limb fact = 5/5

Hydrograph Volume = 0.609 acft



Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Tuesday, Aug 29 2006, 3:35 PM

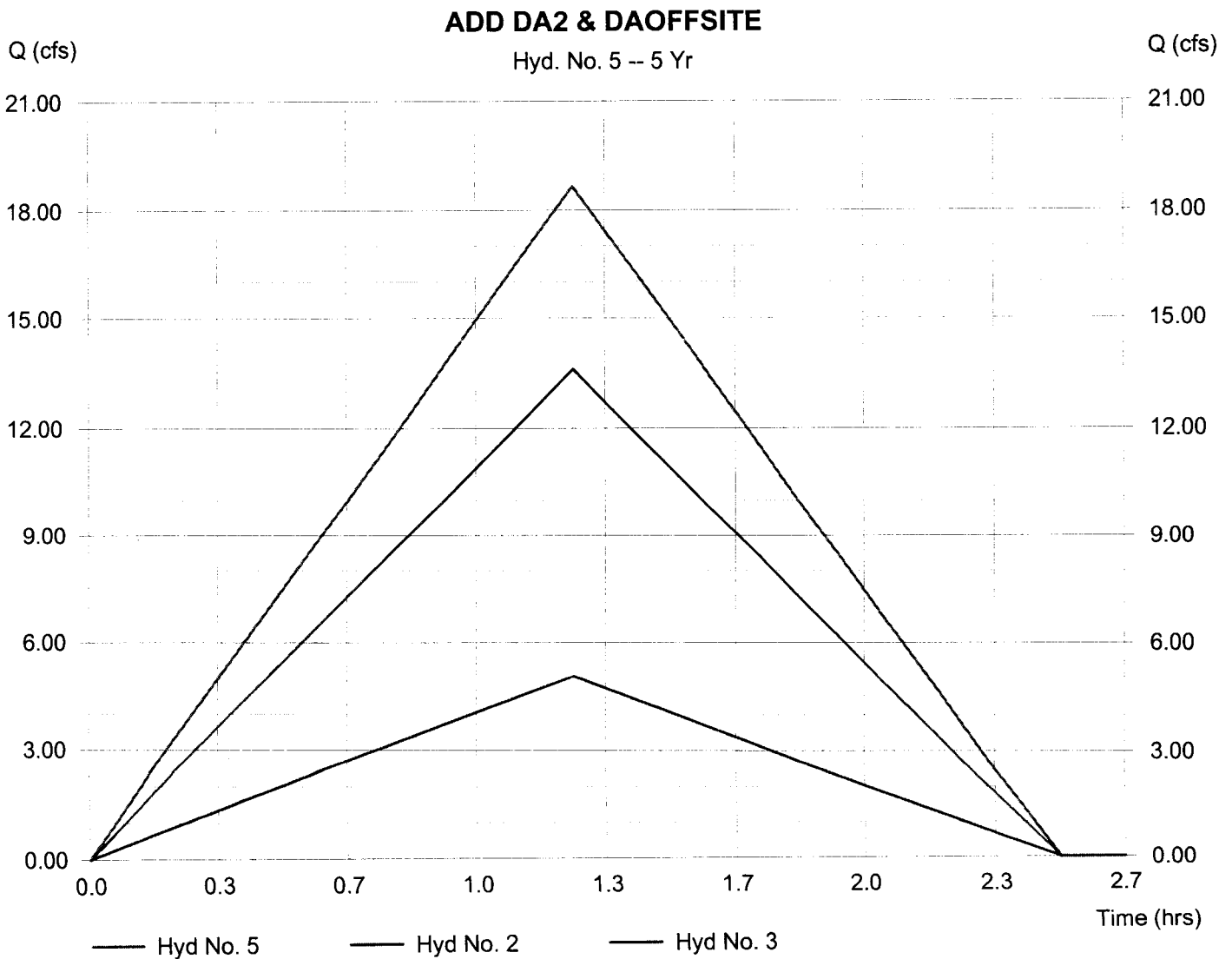
Hyd. No. 5

ADD DA2 & DAOFFSITE

Hydrograph type = Combine
 Storm frequency = 5 yrs
 Inflow hyds. = 2, 3

Peak discharge = 18.67 cfs
 Time interval = 1 min

Hydrograph Volume = 1.929 acft



Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Tuesday, Aug 29 2006, 3:35 PM

Hyd. No. 6

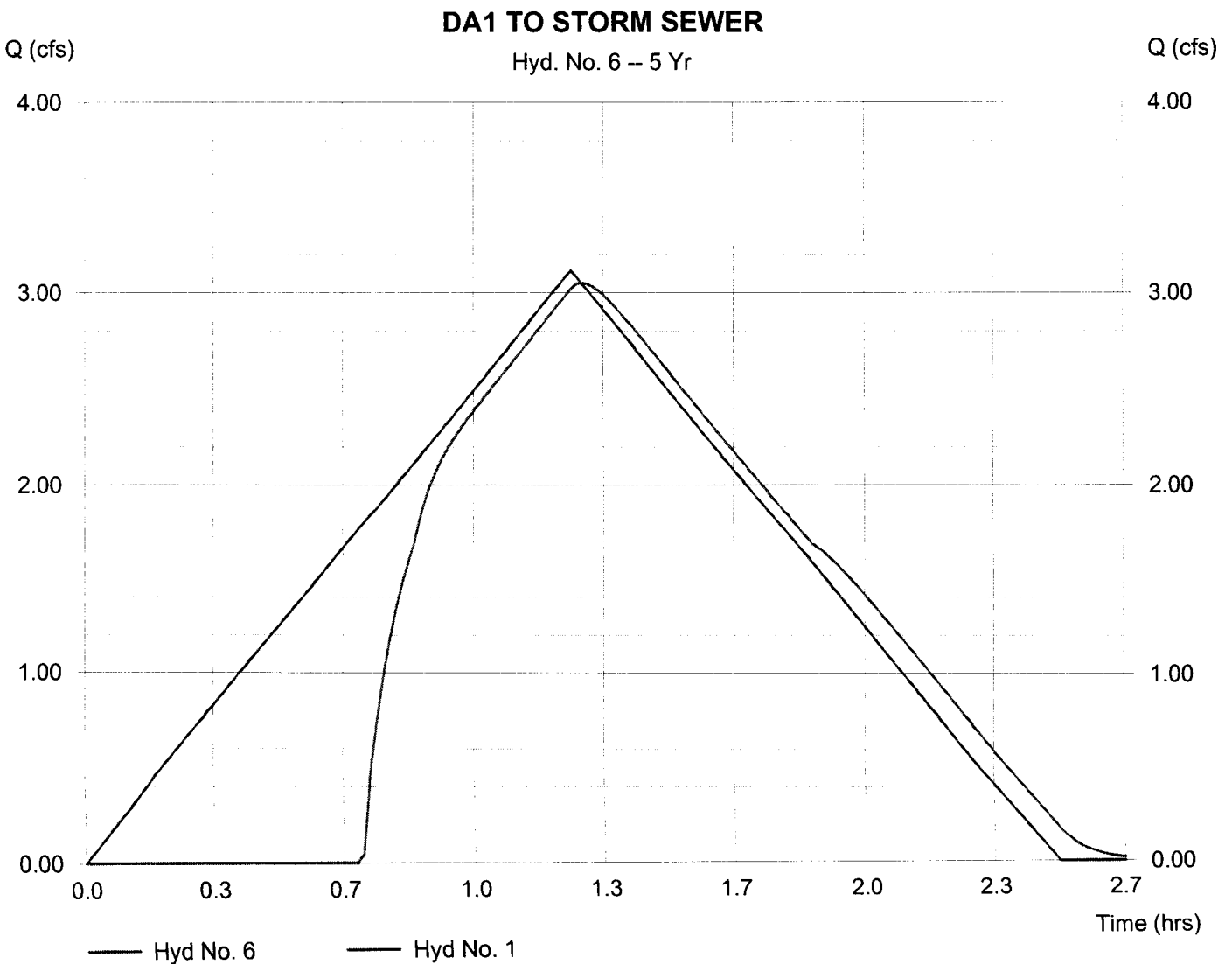
DA1 TO STORM SEWER

Hydrograph type = Reservoir
 Storm frequency = 5 yrs
 Inflow hyd. No. = 1
 Reservoir name = STORM SEWER

Peak discharge = 3.050 cfs
 Time interval = 1 min
 Max. Elevation = 1363.64 ft
 Max. Storage = 0.067 acft

Storage Indication method used.

Hydrograph Volume = 0.270 acft



Pond Report

Hydraflow Hydrographs by Intelisolve

Tuesday, Aug 29 2006, 3:35 PM

Pond No. 3 - STORM SEWER

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 (acft)	Total storage (acft)
0.00	1357.56	16	0.000	0.000
0.44	1358.00	16	0.000	0.000
1.44	1359.00	16	0.000	0.001
2.44	1360.00	16	0.000	0.001
3.44	1361.00	16	0.000	0.001
4.44	1362.00	16	0.000	0.002
5.44	1363.00	50	0.001	0.002
6.44	1364.00	8,702	0.100	0.103
7.44	1365.00	9,000	0.203	0.306

Culvert / Orifice Structures

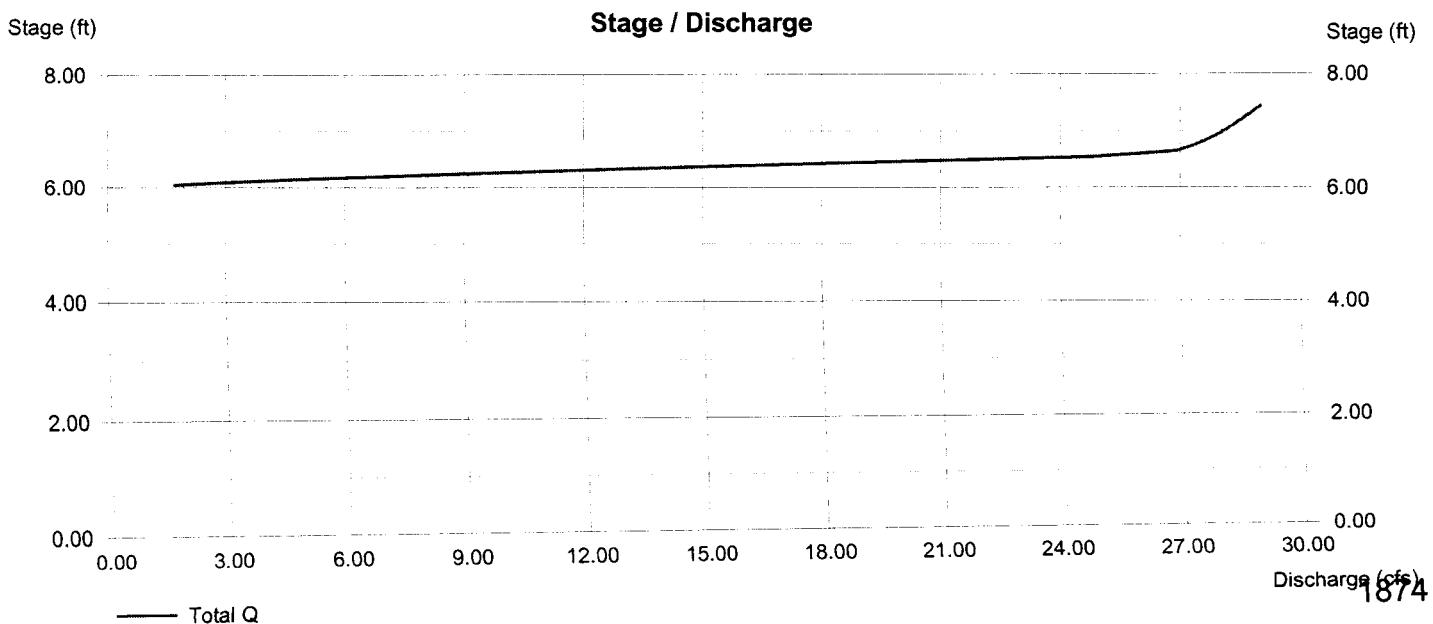
	[A]	[B]	[C]	[D]
Rise (in)	= 24.00	0.00	0.00	0.00
Span (in)	= 24.00	0.00	0.00	0.00
No. Barrels	= 1	0	0	0
Invert El. (ft)	= 1357.56	0.00	0.00	0.00
Length (ft)	= 365.00	0.00	0.00	0.00
Slope (%)	= 0.70	0.00	0.00	0.00
N-Value	= .013	.000	.000	.000
Orif. Coeff.	= 0.60	0.00	0.00	0.00
Multi-Stage	= n/a	No	No	No

Weir Structures

	[A]	[B]	[C]	[D]
Crest Len (ft)	= 16.00	0.00	0.00	0.00
Crest El. (ft)	= 1363.50	0.00	0.00	0.00
Weir Coeff.	= 3.33	0.00	0.00	0.00
Weir Type	= Riser	---	---	---
Multi-Stage	= Yes	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. Weir riser checked for orifice conditions.



Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Tuesday, Aug 29 2006, 3:35 PM

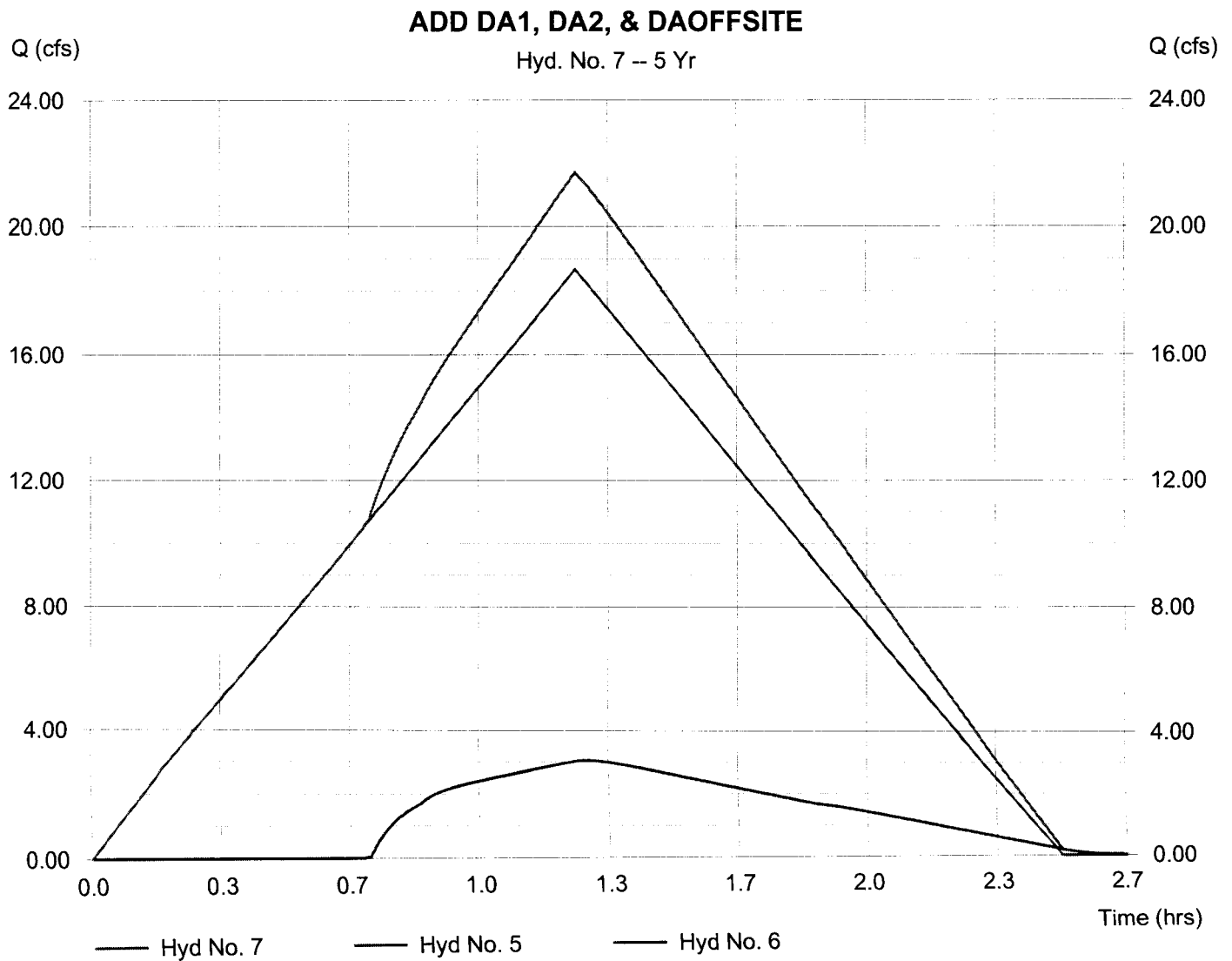
Hyd. No. 7

ADD DA1, DA2, & DAOFFSITE

Hydrograph type = Combine
 Storm frequency = 5 yrs
 Inflow hyds. = 5, 6

Peak discharge = 21.69 cfs
 Time interval = 1 min

Hydrograph Volume = 2.199 acft



Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Tuesday, Aug 29 2006, 3:35 PM

Hyd. No. 8

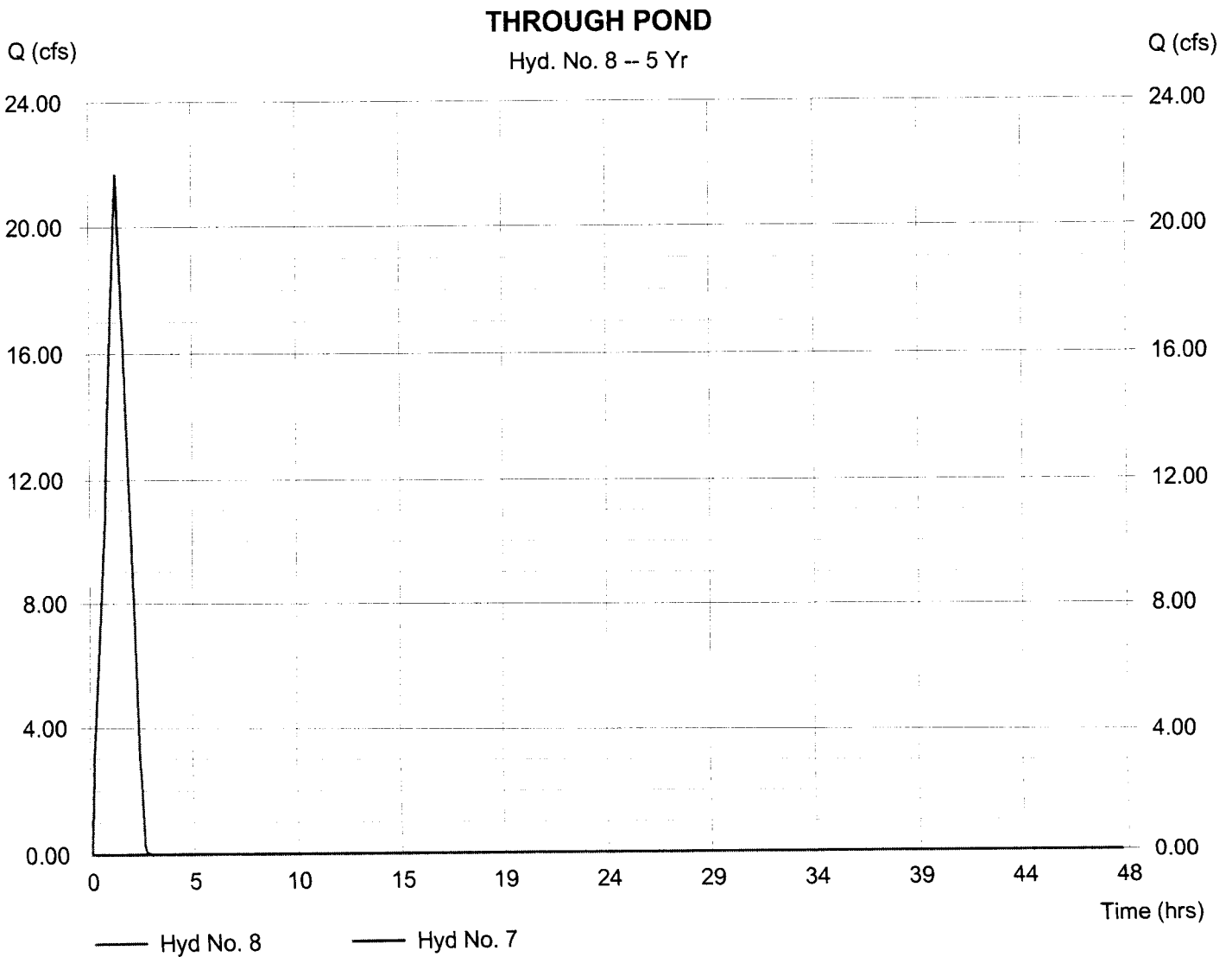
THROUGH POND

Hydrograph type = Reservoir
 Storm frequency = 5 yrs
 Inflow hyd. No. = 7
 Reservoir name = PROPOSED POND

Peak discharge = 0.000 cfs
 Time interval = 1 min
 Max. Elevation = 1354.15 ft
 Max. Storage = 2.199 acft

Storage Indication method used.

Hydrograph Volume = 0.000 acft



Pond Report

Hydraflow Hydrographs by Intelisolve

Tuesday, Aug 29 2006, 3:35 PM

Pond No. 1 - PROPOSED POND

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 (acft)	Total storage (acft)
0.00	1349.00	14,992	0.000	0.000
1.00	1350.00	15,962	0.355	0.355
2.00	1351.00	17,488	0.384	0.739
3.00	1352.00	19,071	0.420	1.159
4.00	1353.00	20,711	0.457	1.616
5.00	1354.00	22,407	0.495	2.110
6.00	1355.00	28,470	0.584	2.694
7.00	1356.00	31,071	0.683	3.378
8.00	1357.00	33,773	0.744	4.122

Culvert / Orifice Structures

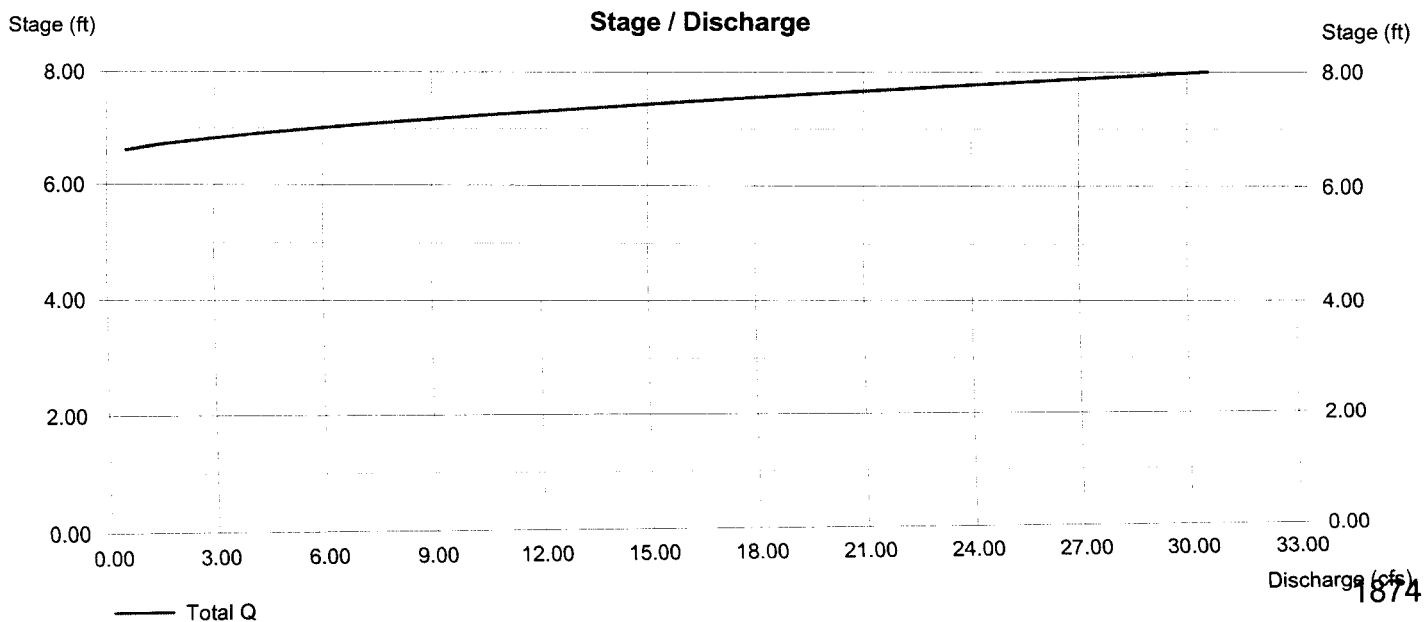
	[A]	[B]	[C]	[D]
Rise (in)	= 0.00	0.00	0.00	0.00
Span (in)	= 0.00	0.00	0.00	0.00
No. Barrels	= 0	0	0	0
Invert El. (ft)	= 0.00	0.00	0.00	0.00
Length (ft)	= 0.00	0.00	0.00	0.00
Slope (%)	= 0.00	0.00	0.00	0.00
N-Value	= .013	.013	.013	.013
Orif. Coeff.	= 0.60	0.60	0.60	0.60
Multi-Stage	= n/a	No	No	No

Weir Structures

	[A]	[B]	[C]	[D]
Crest Len (ft)	= 5.00	0.00	0.00	0.00
Crest El. (ft)	= 1355.50	0.00	0.00	0.00
Weir Coeff.	= 3.33	3.33	0.00	0.00
Weir Type	= Cipiti	---	---	---
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

Tuesday, Aug 29 2006, 3:35 PM

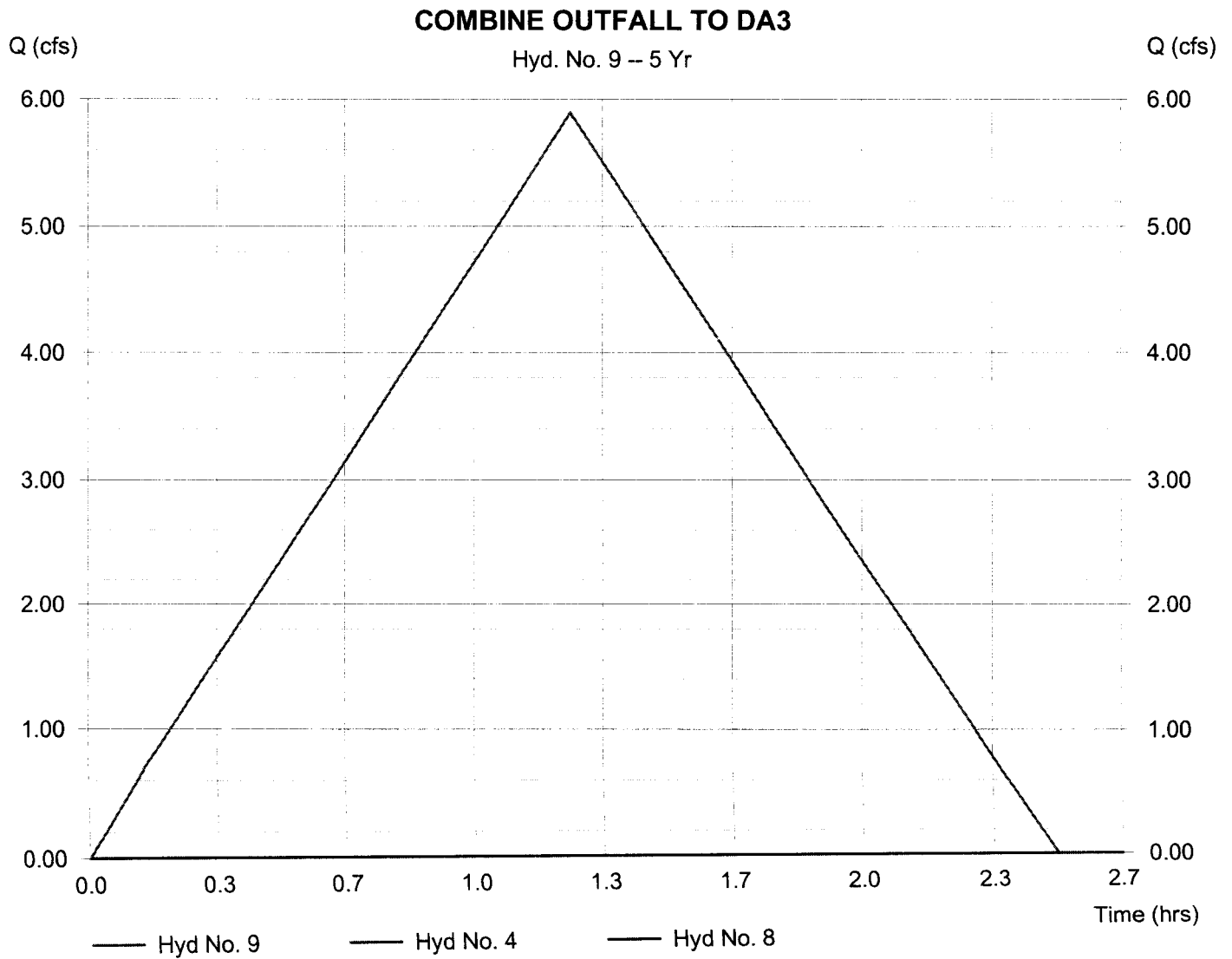
Hyd. No. 9

COMBINE OUTFALL TO DA3

Hydrograph type = Combine
Storm frequency = 5 yrs
Inflow hyds. = 4, 8

Peak discharge = 5.895 cfs
Time interval = 1 min

Hydrograph Volume = 0.609 acft



Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Tuesday, Aug 29 2006, 3:35 PM

Hyd. No. 10

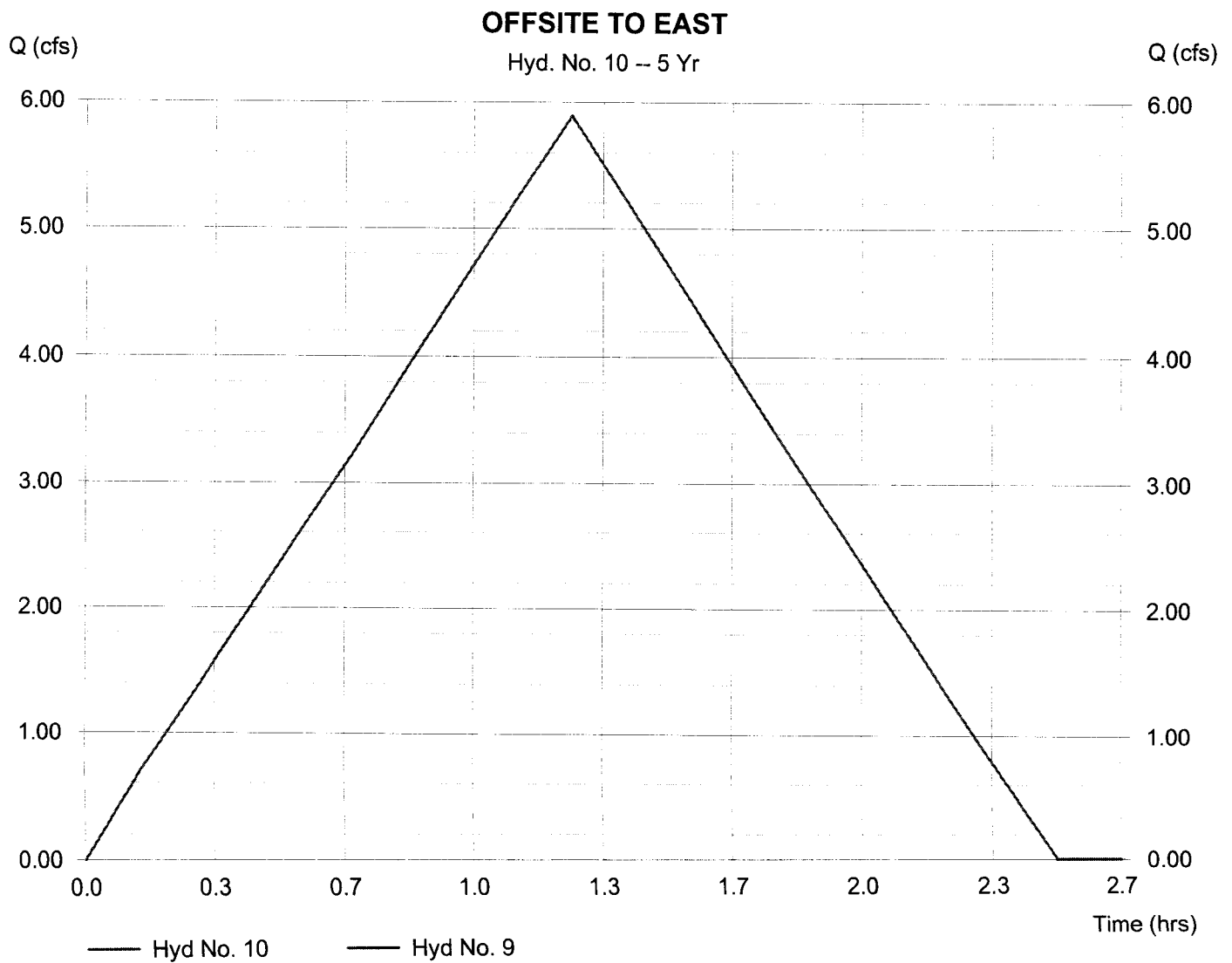
OFFSITE TO EAST

Hydrograph type = Reservoir
Storm frequency = 5 yrs
Inflow hyd. No. = 9
Reservoir name = To Offsite

Peak discharge = 5.894 cfs
Time interval = 1 min
Max. Elevation = 1349.09 ft
Max. Storage = 0.000 acft

Storage Indication method used.

Hydrograph Volume = 0.609 acft



Pond Report

Hydraflow Hydrographs by Intelisolve

Tuesday, Aug 29 2006, 3:35 PM

Pond No. 2 - To Offsite

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 (acft)	Total storage (acft)
0.00	1348.50	01	0.000	0.000
1.00	1349.50	01	0.000	0.000
2.00	1350.50	01	0.000	0.000
3.00	1351.50	01	0.000	0.000
4.00	1352.50	01	0.000	0.000

Culvert / Orifice Structures

	[A]	[B]	[C]	[D]
Rise (in)	= 0.00	0.00	0.00	0.00
Span (in)	= 0.00	0.00	0.00	0.00
No. Barrels	= 0	0	0	0
Invert El. (ft)	= 0.00	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	.013	.013	.013
Orif. Coeff.	= 0.60	0.60	0.60	0.60
Multi-Stage	= n/a	No	No	No

Weir Structures

	[A]	[B]	[C]	[D]
Crest Len (ft)	= 5.00	0.00	0.00	0.00
Crest El. (ft)	= 1348.50	0.00	0.00	0.00
Weir Coeff.	= 2.60	0.00	0.00	0.00
Weir Type	= Broad	---	---	---
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. Weir riser checked for orifice conditions.

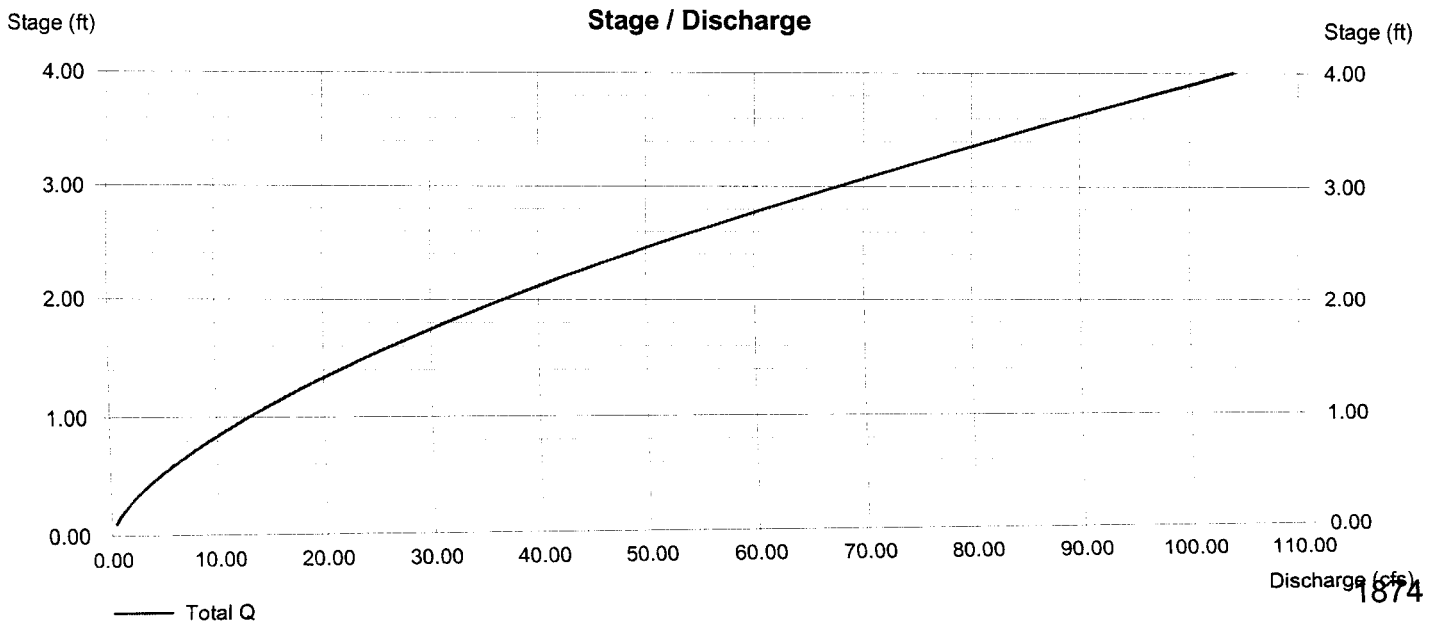


Table of Contents

Hydrograph Return Period Recap	1
100 - Year	
Summary Report	2
Hydrograph Reports	3
Hydrograph No. 1, Rational, DA1-R100	3
Hydrograph No. 2, Rational, DA2-R100	4
Hydrograph No. 3, Rational, DAOFFSITE-R100	5
Hydrograph No. 4, Rational, DA3-R100	6
Hydrograph No. 5, Combine, ADD DA2 & DAOFFSITE	7
Hydrograph No. 6, Reservoir, DA1 TO STORM SEWER	8
Pond Report	9
Hydrograph No. 7, Combine, ADD DA1, DA2, & DAOFFSITE	10
Hydrograph No. 8, Reservoir, THROUGH POND	11
Pond Report	12
Hydrograph No. 9, Combine, COMBINE OUTFALL TO DA3	13
Hydrograph No. 10, Reservoir, OFFSITE TO EAST	14
Pond Report	15

Hydrograph Return Period Recap

Hyd. No.	Hydrograph type (origin)	Inflow Hyd(s)	Peak Outflow (cfs)								Hydrograph description
			1-Yr	2-Yr	3-Yr	5-Yr	10-Yr	25-Yr	50-Yr	100-Yr	
1	Rational	-----	2.804	3.319	-----	4.035	4.619	5.381	5.971	6.462	DA1-R100
2	Rational	-----	12.24	14.49	-----	17.61	20.16	23.49	26.06	28.20	DA2-R100
3	Rational	-----	3.933	4.656	-----	5.661	6.479	7.549	8.376	9.065	DAOFFSITE-R100
4	Rational	-----	4.578	5.419	-----	6.588	7.541	8.786	9.748	10.55	DA3-R100
5	Combine	2, 3,	16.17	19.14	-----	23.27	26.64	31.03	34.44	37.27	ADD DA2 & DAOFFSITE
6	Reservoir	1	2.742	3.247	-----	3.947	4.518	5.290	5.871	6.353	DA1 TO STORM SEWER
7	Combine	5, 6	18.89	22.36	-----	27.18	31.11	36.28	40.26	43.57	ADD DA1, DA2, & DAOFFSITE
8	Reservoir	7	0.000	0.000	-----	0.000	1.207	7.424	11.96	15.70	THROUGH POND
9	Combine	4, 8	4.578	5.419	-----	6.588	7.541	9.540	15.16	19.78	COMBINE OUTFALL TO DA3
10	Reservoir	9	4.577	5.419	-----	6.588	7.540	9.539	15.16	19.78	OFFSITE TO EAST

Hydrograph Summary Report

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to peak (min)	Volume (acft)	Inflow hyd(s)	Maximum elevation (ft)	Maximum storage (acft)	Hydrograph description	
1	Rational	6.462	1	75	0.668	---	----	----	DA1-R100	
2	Rational	28.20	1	75	2.913	---	----	----	DA2-R100	
3	Rational	9.065	1	75	0.936	---	----	----	DAOFFSITE-R100	
4	Rational	10.55	1	75	1.090	---	----	----	DA3-R100	
5	Combine	37.27	1	75	3.850	2, 3,	----	----	ADD DA2 & DAOFFSITE	
6	Reservoir	6.353	1	76	0.615	1	1363.74	0.077	DA1 TO STORM SEWER	
7	Combine	43.57	1	75	4.465	5, 6	----	----	ADD DA1, DA2, & DAOFFSITE	
8	Reservoir	15.70	1	123	1.429	7	1356.46	3.721	THROUGH POND	
9	Combine	19.78	1	119	2.518	4, 8	----	----	COMBINE OUTFALL TO DA3	
10	Reservoir	19.78	1	119	2.518	9	1349.82	0.000	OFFSITE TO EAST	
Final Drainage 100YEAR-REV.gpw							Return Period: 100 Year		Tuesday, Aug 29 2006	
									1874	

Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Tuesday, Aug 29 2006, 3:30 PM

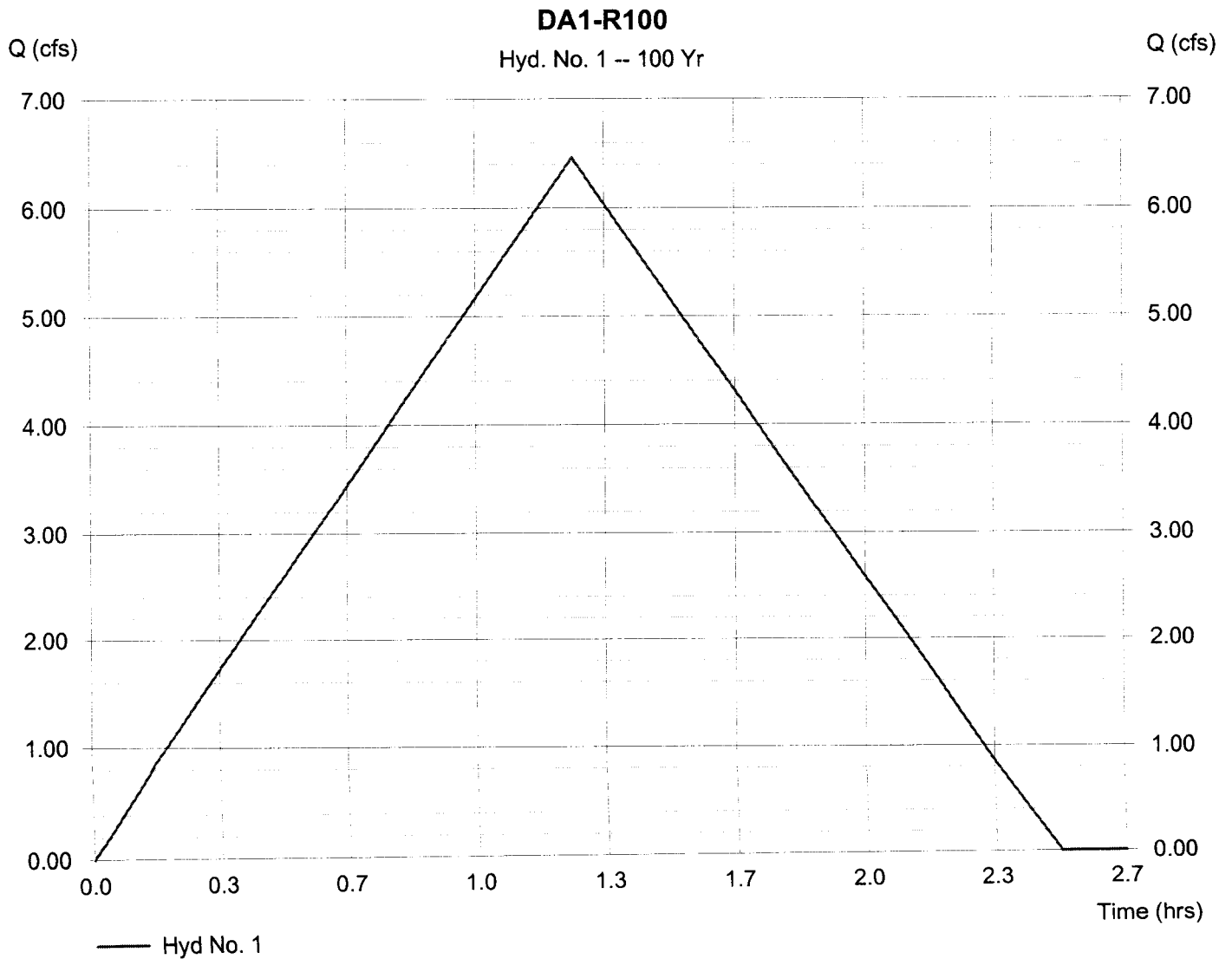
Hyd. No. 1

DA1-R100

Hydrograph type = Rational
Storm frequency = 100 yrs
Drainage area = 1.323 ac
Intensity = 7.400 in/hr
IDF Curve = SedgwickCoREV.IDF

Peak discharge = 6.462 cfs
Time interval = 1 min
Runoff coeff. = 0.66
Tc by User = 15.00 min
Asc/Rec limb fact = 5/5

Hydrograph Volume = 0.668 acft



Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Tuesday, Aug 29 2006, 3:30 PM

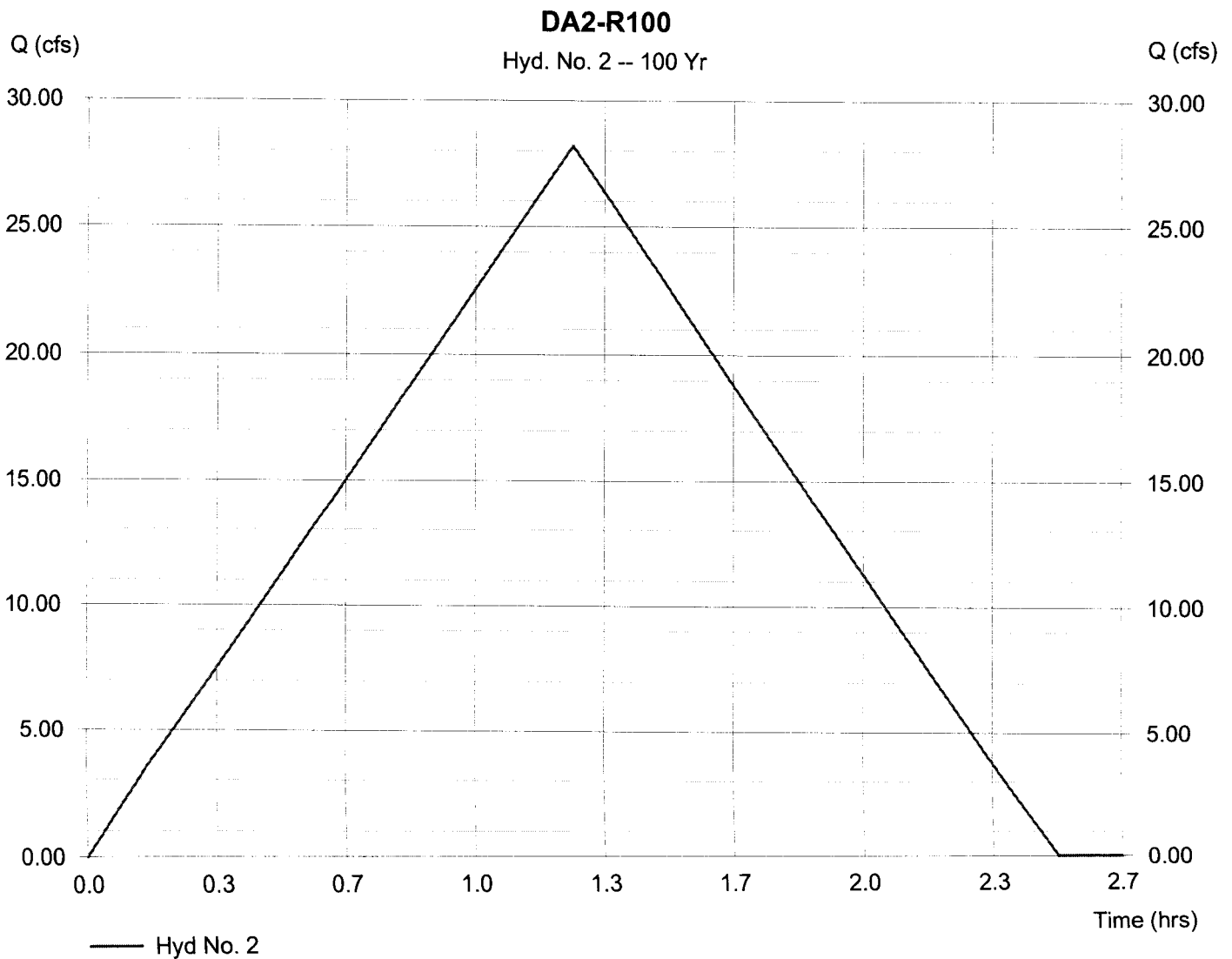
Hyd. No. 2

DA2-R100

Hydrograph type = Rational
Storm frequency = 100 yrs
Drainage area = 5.774 ac
Intensity = 7.400 in/hr
IDF Curve = SedgwickCoREV.IDF

Peak discharge = 28.20 cfs
Time interval = 1 min
Runoff coeff. = 0.66
Tc by User = 15.00 min
Asc/Rec limb fact = 5/5

Hydrograph Volume = 2.913 acft



Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Tuesday, Aug 29 2006, 3:30 PM

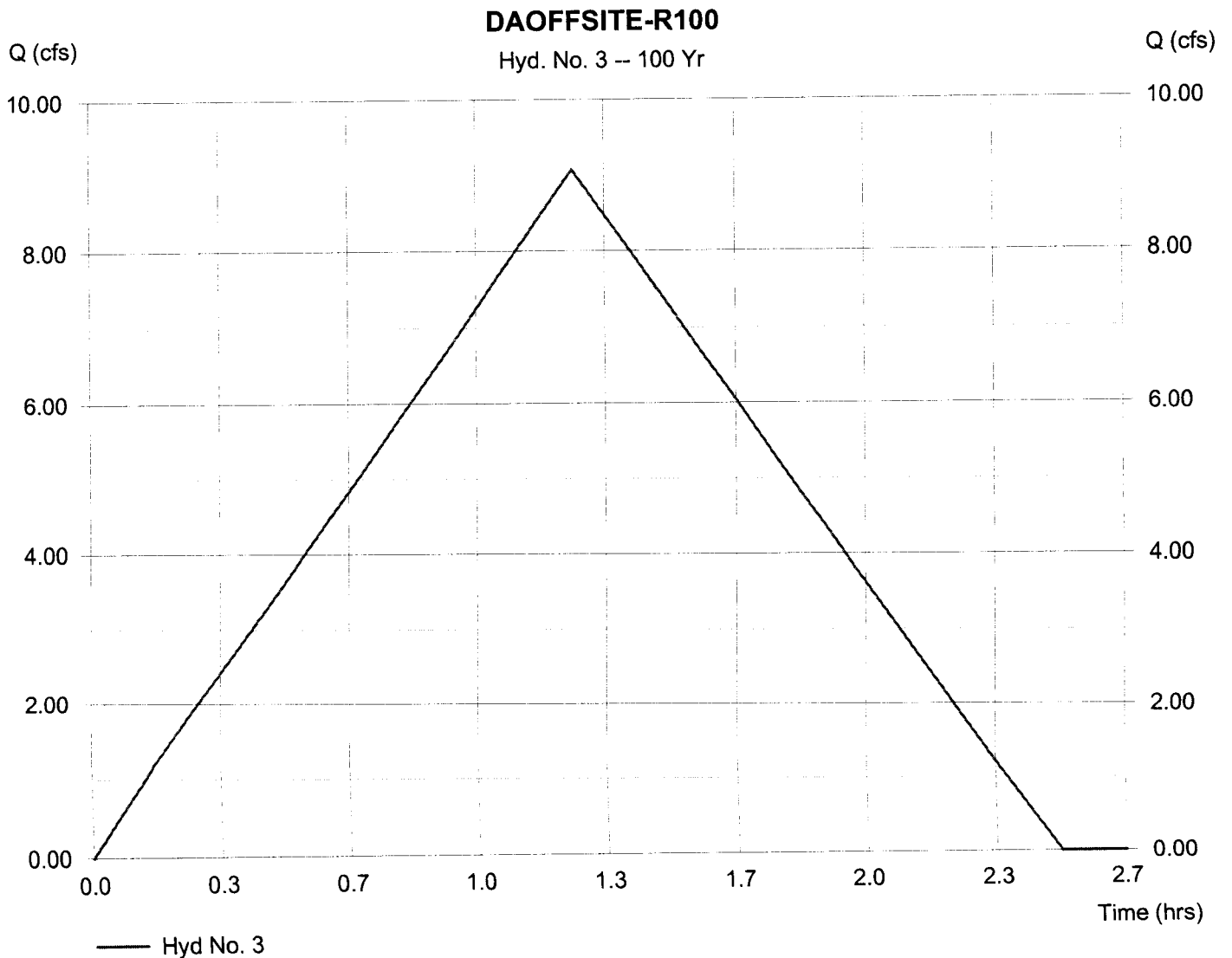
Hyd. No. 3

DAOFFSITE-R100

Hydrograph type = Rational
Storm frequency = 100 yrs
Drainage area = 2.149 ac
Intensity = 7.400 in/hr
IDF Curve = SedgwickCoREV.IDF

Peak discharge = 9.065 cfs
Time interval = 1 min
Runoff coeff. = 0.57
Tc by User = 15.00 min
Asc/Rec limb fact = 5/5

Hydrograph Volume = 0.936 acft



Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Tuesday, Aug 29 2006, 3:30 PM

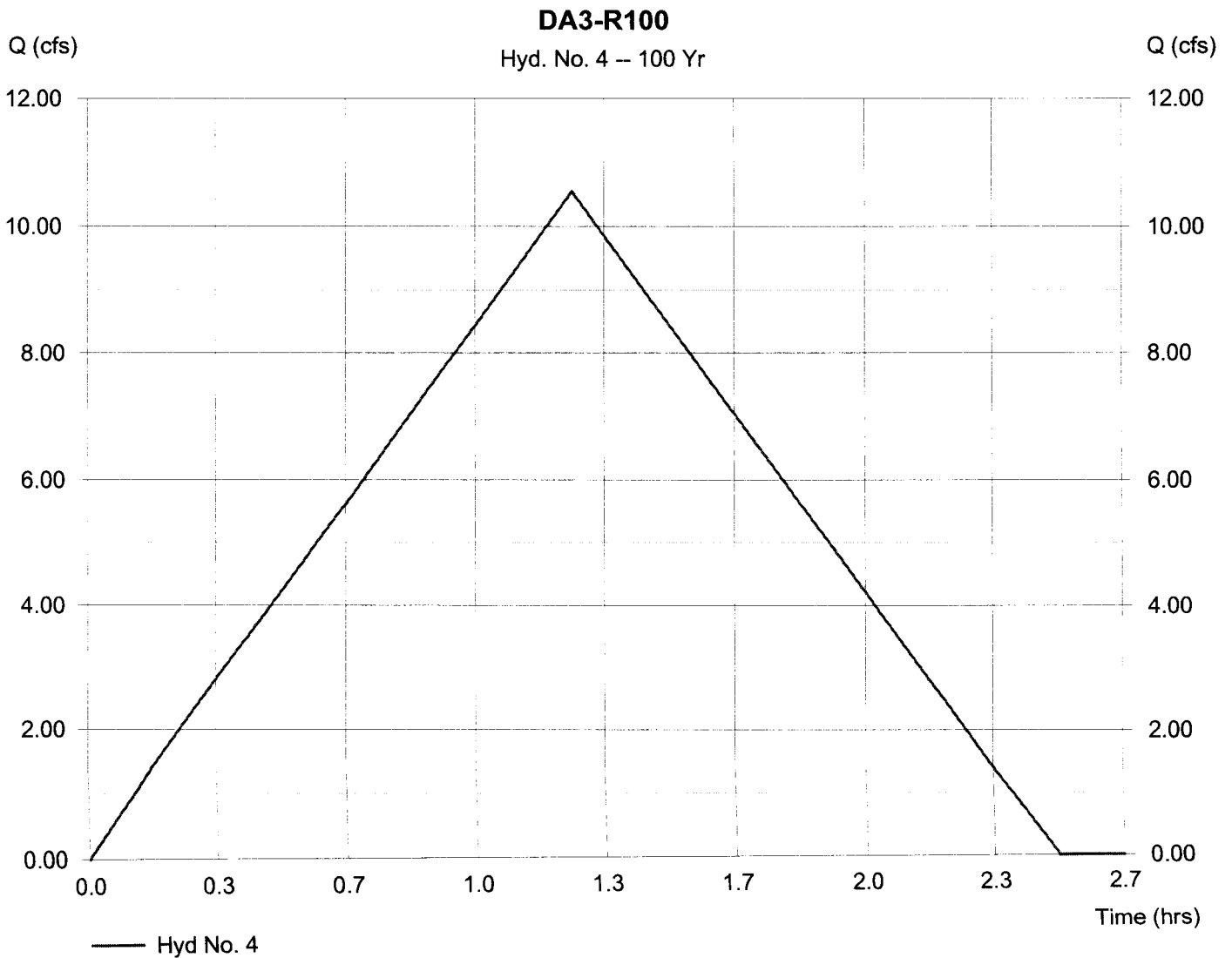
Hyd. No. 4

DA3-R100

Hydrograph type = Rational
 Storm frequency = 100 yrs
 Drainage area = 2.501 ac
 Intensity = 7.400 in/hr
 IDF Curve = SedgwickCoREV.IDF

Peak discharge = 10.55 cfs
 Time interval = 1 min
 Runoff coeff. = 0.57
 Tc by User = 15.00 min
 Asc/Rec limb fact = 5/5

Hydrograph Volume = 1.090 acft



Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Tuesday, Aug 29 2006, 3:30 PM

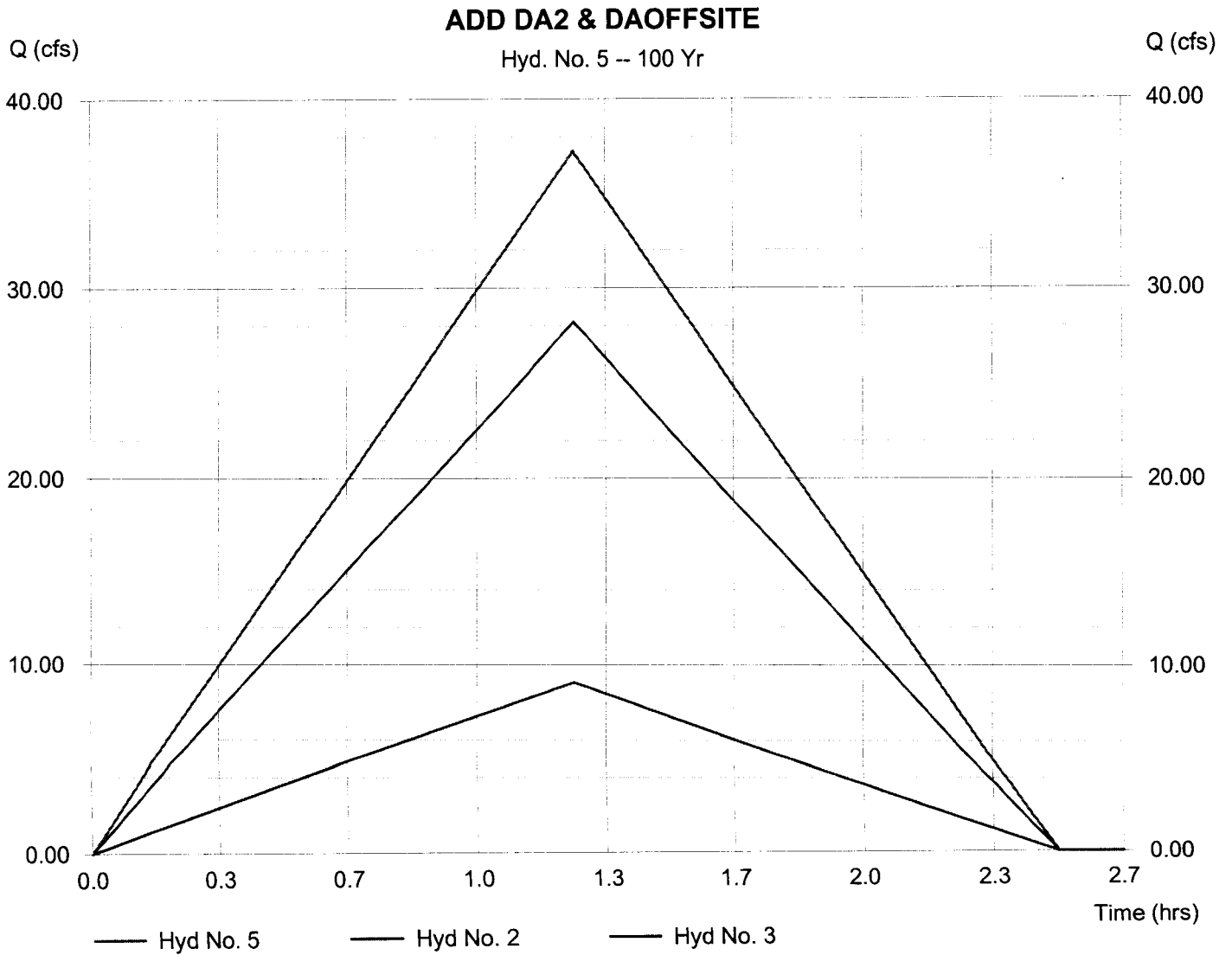
Hyd. No. 5

ADD DA2 & DAOFFSITE

Hydrograph type = Combine
Storm frequency = 100 yrs
Inflow hyds. = 2, 3

Peak discharge = 37.27 cfs
Time interval = 1 min

Hydrograph Volume = 3.850 acft



Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Tuesday, Aug 29 2006, 3:30 PM

Hyd. No. 6

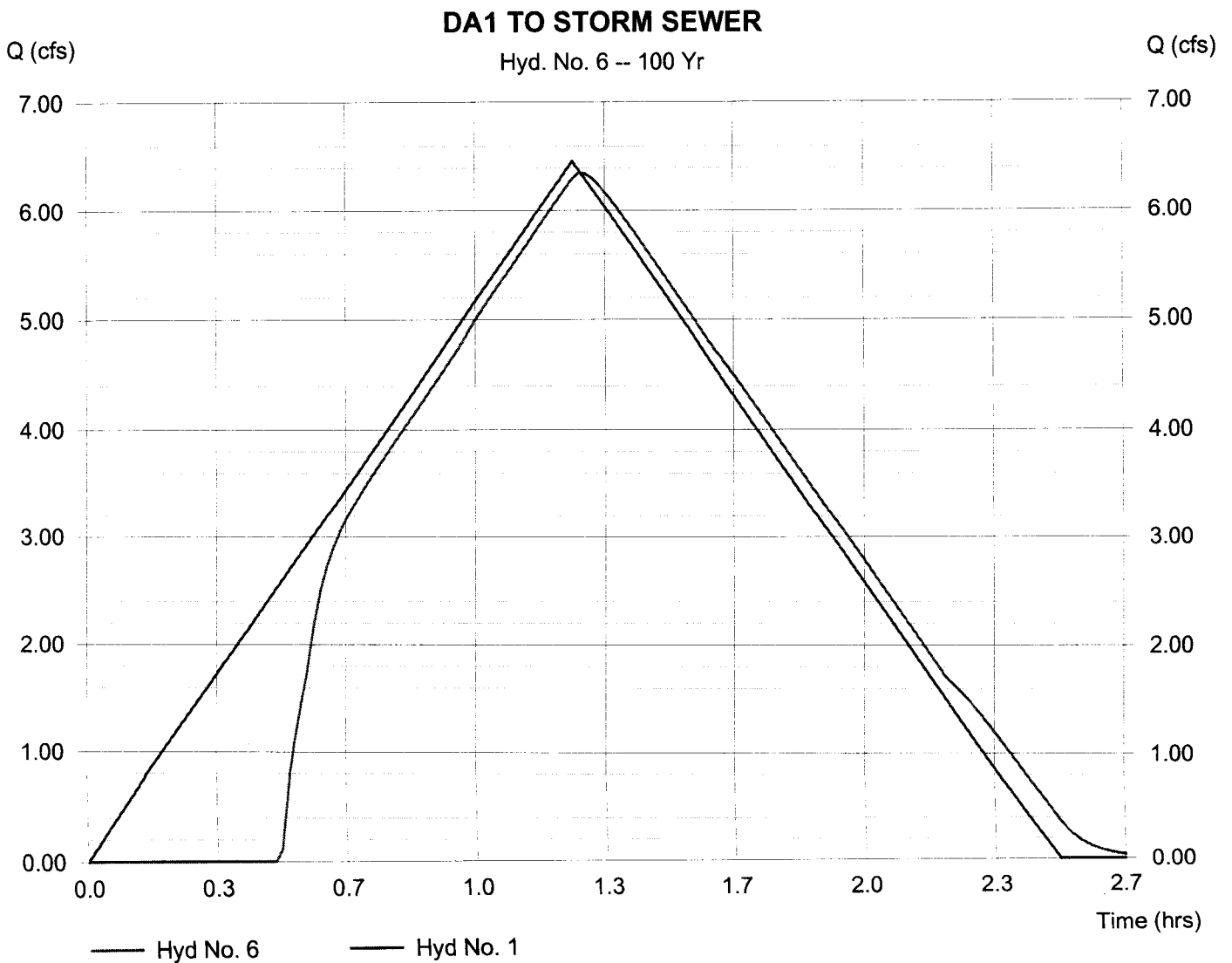
DA1 TO STORM SEWER

Hydrograph type = Reservoir
 Storm frequency = 100 yrs
 Inflow hyd. No. = 1
 Reservoir name = STORM SEWER

Peak discharge = 6.353 cfs
 Time interval = 1 min
 Max. Elevation = 1363.74 ft
 Max. Storage = 0.077 acft

Storage Indication method used.

Hydrograph Volume = 0.615 acft



Pond Report

Hydraflow Hydrographs by Intelisolve

Tuesday, Aug 29 2006, 3:30 PM

Pond No. 3 - STORM SEWER

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 (acft)	Total storage (acft)
0.00	1357.56	16	0.000	0.000
0.44	1358.00	16	0.000	0.000
1.44	1359.00	16	0.000	0.001
2.44	1360.00	16	0.000	0.001
3.44	1361.00	16	0.000	0.001
4.44	1362.00	16	0.000	0.002
5.44	1363.00	50	0.001	0.002
6.44	1364.00	8,702	0.100	0.103
7.44	1365.00	9,000	0.203	0.306

Culvert / Orifice Structures

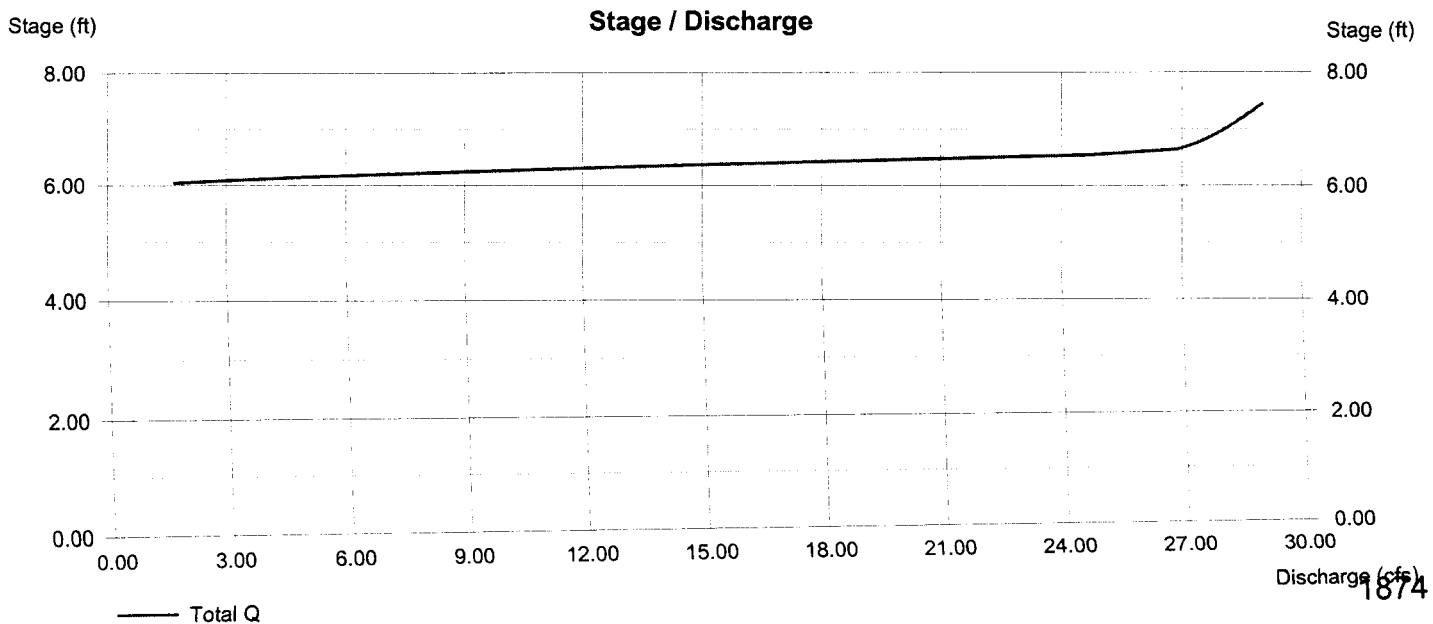
	[A]	[B]	[C]	[D]
Rise (in)	= 24.00	0.00	0.00	0.00
Span (in)	= 24.00	0.00	0.00	0.00
No. Barrels	= 1	0	0	0
Invert El. (ft)	= 1357.56	0.00	0.00	0.00
Length (ft)	= 365.00	0.00	0.00	0.00
Slope (%)	= 0.70	0.00	0.00	0.00
N-Value	= .013	.000	.000	.000
Orif. Coeff.	= 0.60	0.00	0.00	0.00
Multi-Stage	= n/a	No	No	No

Weir Structures

	[A]	[B]	[C]	[D]
Crest Len (ft)	= 16.00	0.00	0.00	0.00
Crest El. (ft)	= 1363.50	0.00	0.00	0.00
Weir Coeff.	= 3.33	0.00	0.00	0.00
Weir Type	= Riser	---	---	---
Multi-Stage	= Yes	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. Weir riser checked for orifice conditions.



Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Tuesday, Aug 29 2006, 3:30 PM

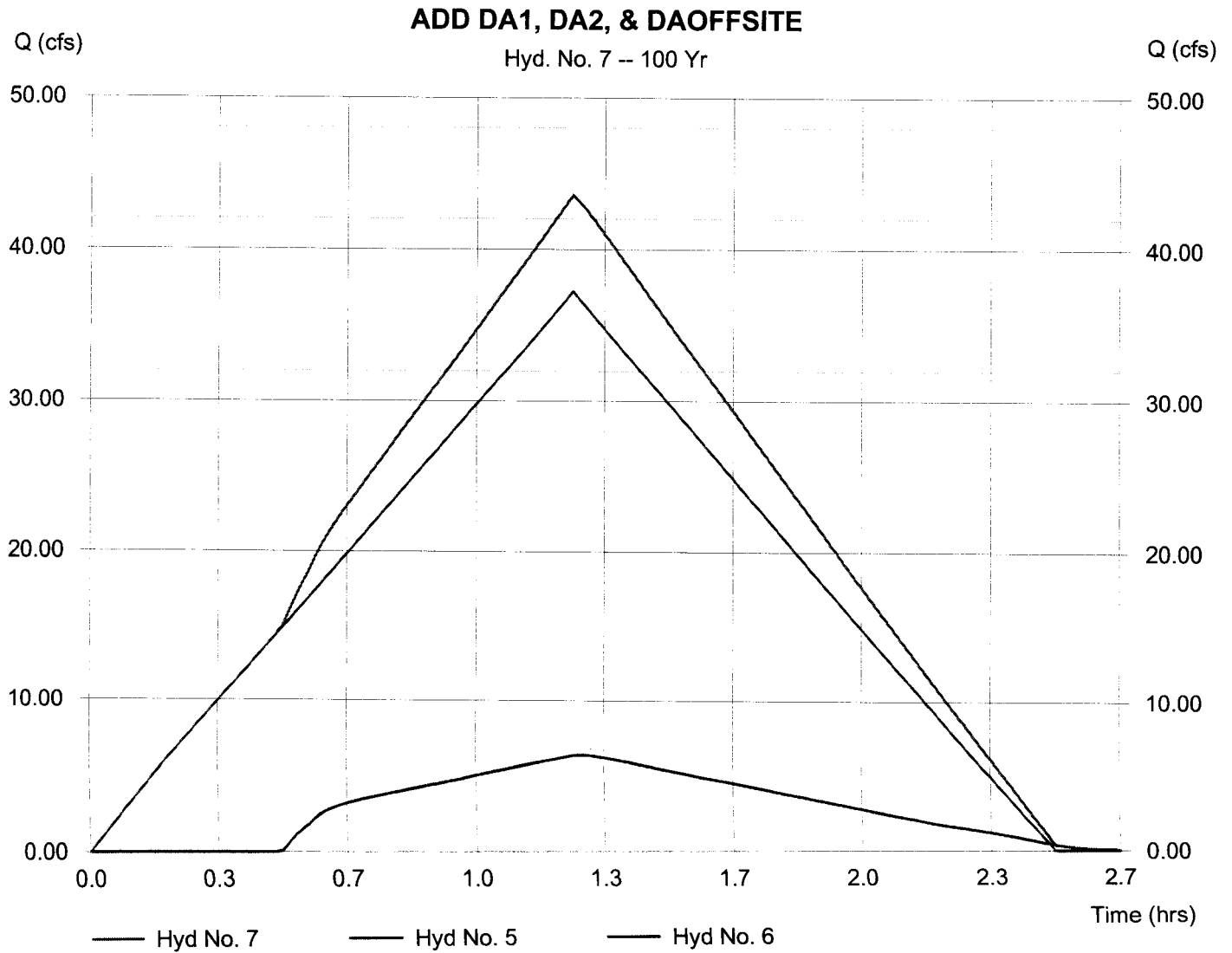
Hyd. No. 7

ADD DA1, DA2, & DAOFFSITE

Hydrograph type = Combine
Storm frequency = 100 yrs
Inflow hyds. = 5, 6

Peak discharge = 43.57 cfs
Time interval = 1 min

Hydrograph Volume = 4.465 acft



Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Tuesday, Aug 29 2006, 3:30 PM

Hyd. No. 8

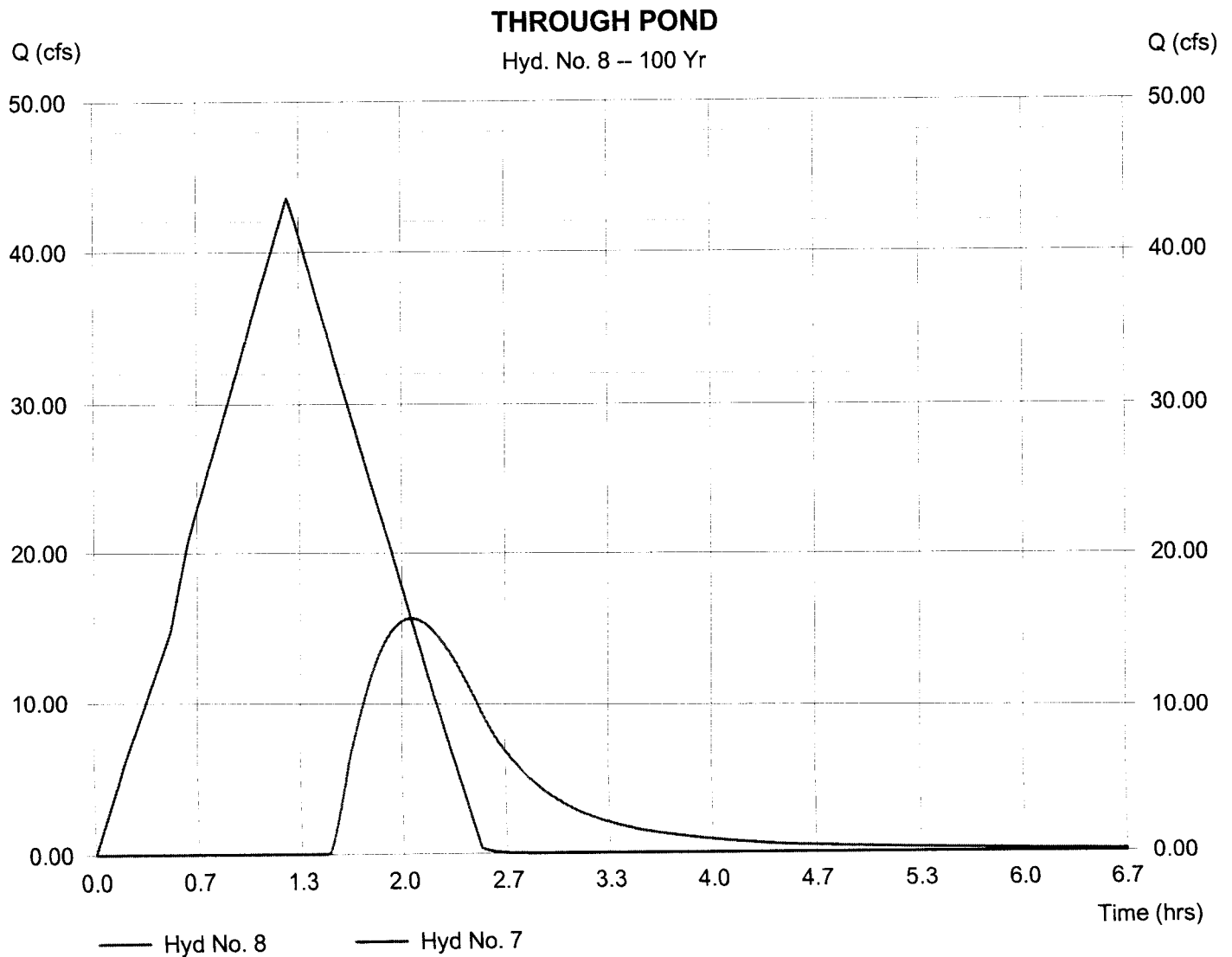
THROUGH POND

Hydrograph type = Reservoir
 Storm frequency = 100 yrs
 Inflow hyd. No. = 7
 Reservoir name = PROPOSED POND

Peak discharge = 15.70 cfs
 Time interval = 1 min
 Max. Elevation = 1356.46 ft
 Max. Storage = 3.721 acft

Storage Indication method used.

Hydrograph Volume = 1.429 acft



Pond Report

Hydraflow Hydrographs by Intelisolve

Tuesday, Aug 29 2006, 3:30 PM

Pond No. 1 - PROPOSED POND

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 (acft)	Total storage (acft)
0.00	1349.00	14,992	0.000	0.000
1.00	1350.00	15,962	0.355	0.355
2.00	1351.00	17,488	0.384	0.739
3.00	1352.00	19,071	0.420	1.159
4.00	1353.00	20,711	0.457	1.616
5.00	1354.00	22,407	0.495	2.110
6.00	1355.00	28,470	0.584	2.694
7.00	1356.00	31,071	0.683	3.378
8.00	1357.00	33,773	0.744	4.122

Culvert / Orifice Structures

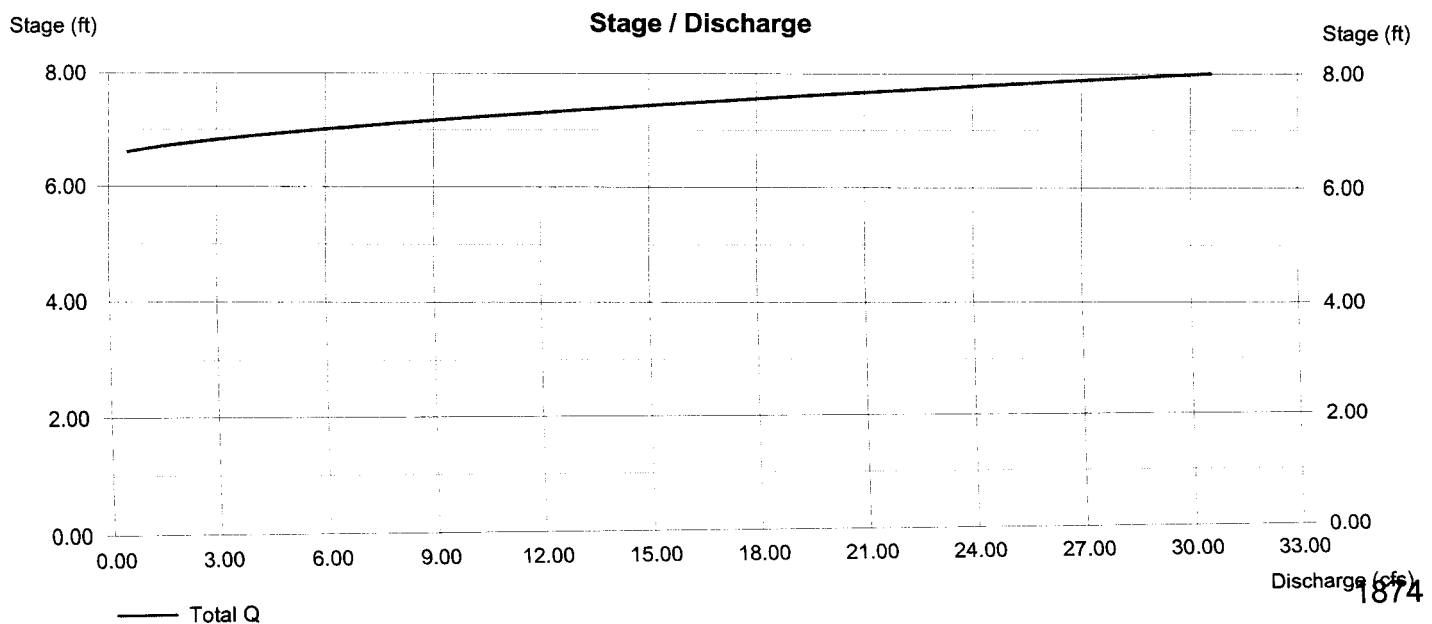
	[A]	[B]	[C]	[D]
Rise (in)	= 0.00	0.00	0.00	0.00
Span (in)	= 0.00	0.00	0.00	0.00
No. Barrels	= 0	0	0	0
Invert El. (ft)	= 0.00	0.00	0.00	0.00
Length (ft)	= 0.00	0.00	0.00	0.00
Slope (%)	= 0.00	0.00	0.00	0.00
N-Value	= .013	.013	.013	.013
Orif. Coeff.	= 0.60	0.60	0.60	0.60
Multi-Stage	= n/a	No	No	No

Weir Structures

	[A]	[B]	[C]	[D]
Crest Len (ft)	= 5.00	0.00	0.00	0.00
Crest El. (ft)	= 1355.50	0.00	0.00	0.00
Weir Coeff.	= 3.33	3.33	0.00	0.00
Weir Type	= Ciphti	---	---	---
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

Tuesday, Aug 29 2006, 3:30 PM

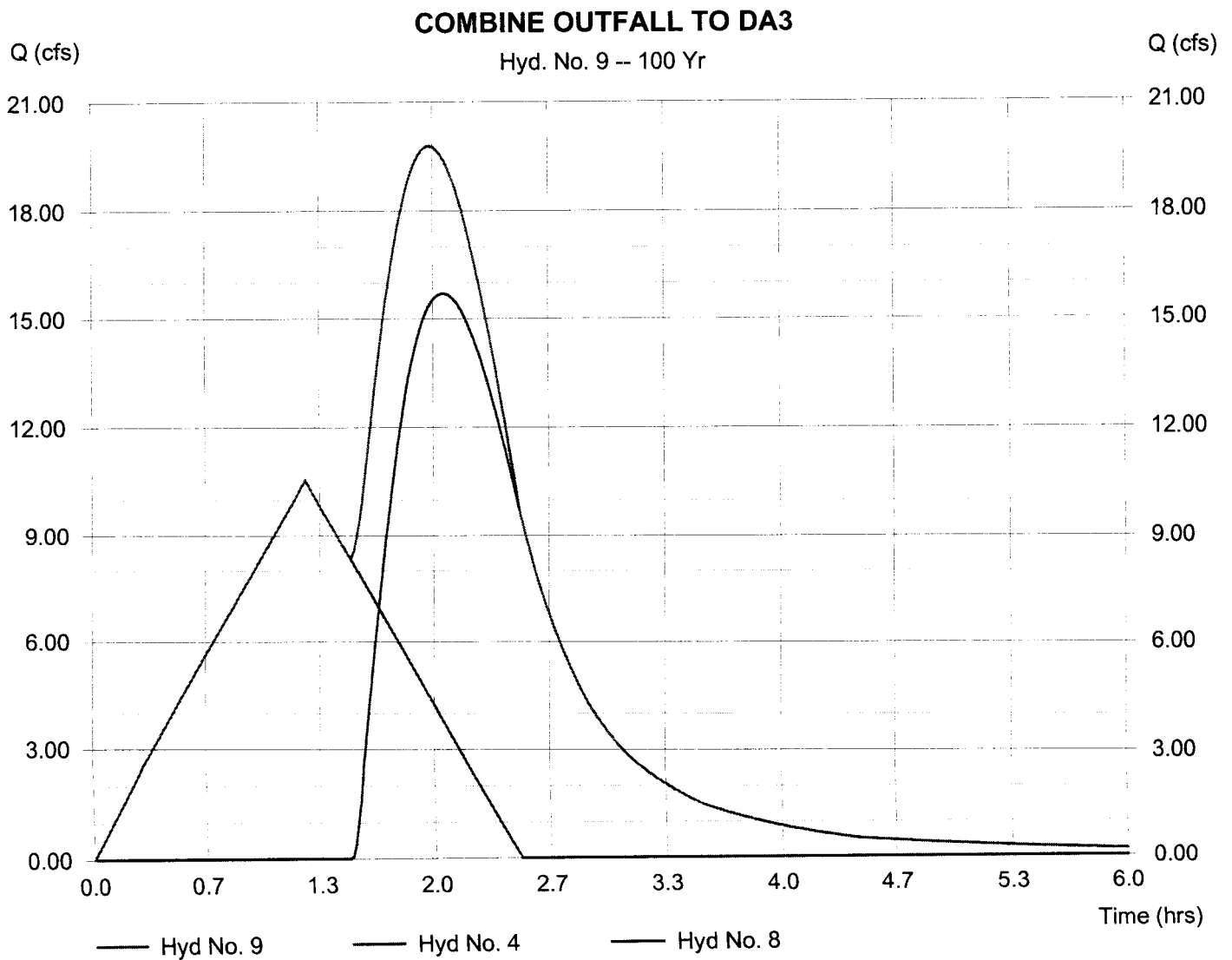
Hyd. No. 9

COMBINE OUTFALL TO DA3

Hydrograph type = Combine
 Storm frequency = 100 yrs
 Inflow hyds. = 4, 8

Peak discharge = 19.78 cfs
 Time interval = 1 min

Hydrograph Volume = 2.518 acft



Hydrograph Plot

Hydraflow Hydrographs by Intelisolve

Tuesday, Aug 29 2006, 3:30 PM

Hyd. No. 10

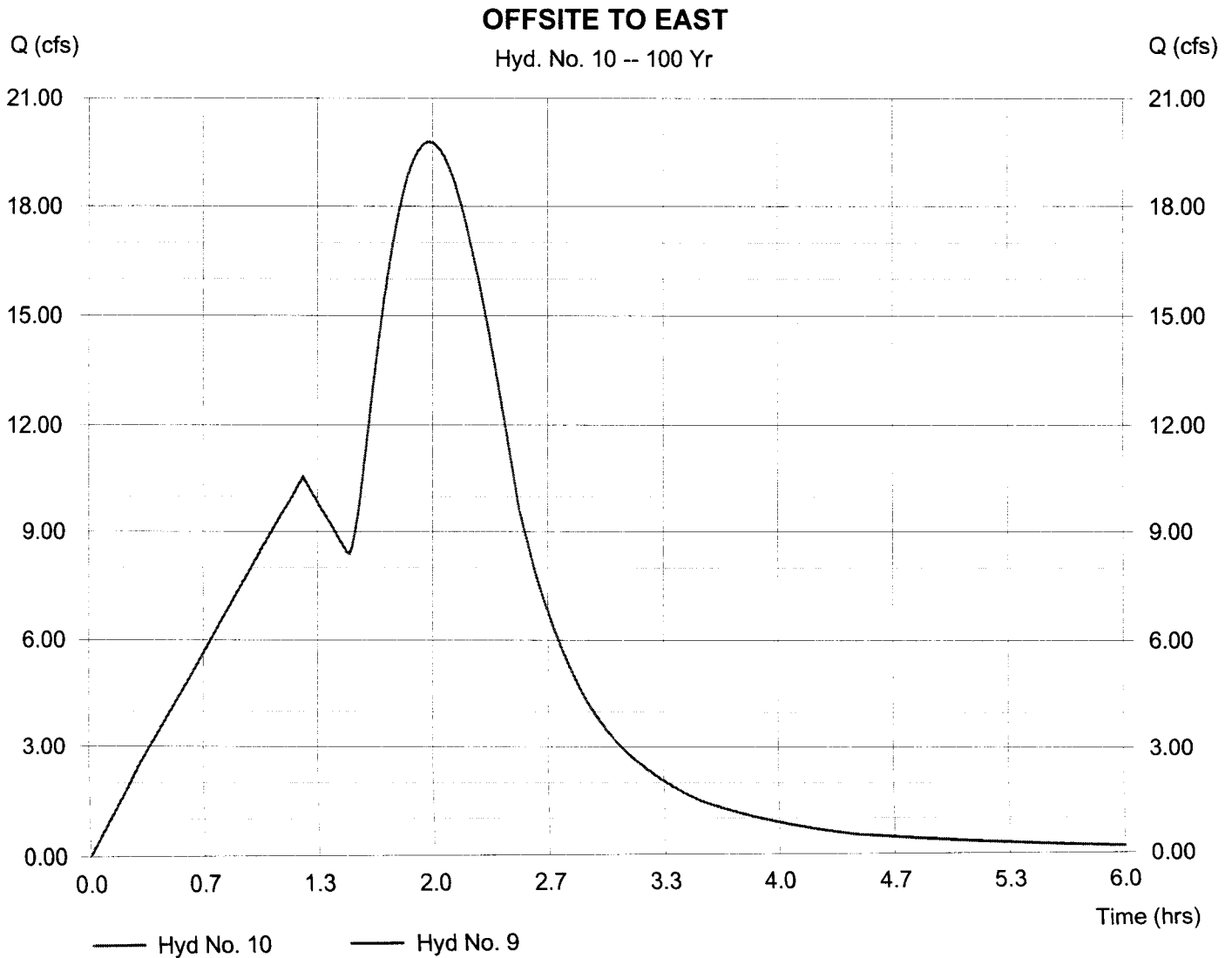
OFFSITE TO EAST

Hydrograph type = Reservoir
Storm frequency = 100 yrs
Inflow hyd. No. = 9
Reservoir name = To Offsite

Peak discharge = 19.78 cfs
Time interval = 1 min
Max. Elevation = 1349.82 ft
Max. Storage = 0.000 acft

Storage Indication method used.

Hydrograph Volume = 2.518 acft



Pond Report

Hydraflow Hydrographs by Intelisolve

Tuesday, Aug 29 2006, 3:30 PM

Pond No. 2 - To Offsite

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 (acft)	Total storage (acft)
0.00	1348.50	01	0.000	0.000
1.00	1349.50	01	0.000	0.000
2.00	1350.50	01	0.000	0.000
3.00	1351.50	01	0.000	0.000
4.00	1352.50	01	0.000	0.000

Culvert / Orifice Structures

	[A]	[B]	[C]	[D]
Rise (in)	= 0.00	0.00	0.00	0.00
Span (in)	= 0.00	0.00	0.00	0.00
No. Barrels	= 0	0	0	0
Invert El. (ft)	= 0.00	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	.013	.013	.013
Orif. Coeff.	= 0.60	0.60	0.60	0.60
Multi-Stage	= n/a	No	No	No

Weir Structures

	[A]	[B]	[C]	[D]
Crest Len (ft)	= 5.00	0.00	0.00	0.00
Crest El. (ft)	= 1348.50	0.00	0.00	0.00
Weir Coeff.	= 2.60	0.00	0.00	0.00
Weir Type	= Broad	---	---	---
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. Weir riser checked for orifice conditions.

